

California High-Speed Rail Authority

Palmdale to Burbank Project Section

Draft Environmental Impact Report/
Environmental Impact Statement

Appendix 3.6-A High Risk & Major Utility
Impact Report

August 2022



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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California High-Speed Rail Authority

Palmdale to Burbank Project Section

PEPD RECORD SET REV01

Appendix 3.6-A High Risk & Major
Utility Impact Report E1

August 2022



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ACRONYMS AND ABBREVIATIONS

ANF	Angeles National Forest
Authority	California High-Speed Rail Authority
CEQA	California Environmental Quality Act
CFS	Cubic Feet per Seconds
CHSTP	California High-Speed Train Project
DPW	Department of Public Works
EIR	Environmental Impact Report
EIS	Environmental Impact Study
FRA	Federal Railroad Administration
GIS	Geographic Information System
HDC	High Desert Corridor
HMF	Heavy Maintenance Facilities
HSR	High-Speed Rail
kV	Kilo Volts
LACWD	Los Angeles County Waterworks Department
LACFCD	Los Angeles County Flood Control District
LADWP	Los Angeles Department of Water and Power
LMF	Light Maintenance Facility
MWD	Metropolitan Water District
NB	North Bound
NEPA	National Environmental Policy Act of 1969
OH	Overhead
PB	Palmdale to Burbank
PSI	Pounds per Square Inch
RDP	Rail Development Partners
RSA	Resource Study Area
ROW	Right of Way
SB	South Bound
SCE	Southern California Edison
SCG	Southern California Gas(The Gas Company)
SCRRA	Southern California Regional Rail Authority (Metrolink)
SGMNM	San Gabriel Mountains National Monuments
SR	State Route
TM	Technical Memorandum
TPSS	Traction Power Substation

UG	Underground
UPRR	Union Pacific Railroad
WD	Water Department

EXECUTIVE SUMMARY

The California High-Speed Rail (HSR) Authority (Authority) proposes to construct, operate, and maintain an electric-powered HSR system in California. When completed, it will run from San Francisco to the Los Angeles Basin in under 3 hours at speeds capable of exceeding 200 miles per hour. The system will eventually extend to Sacramento and San Diego, totaling 800 miles with up to 24 stations.

The Authority and the Federal Railroad Administration (FRA) have prepared program-wide, Tier 1 environmental documents for the HSR system under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Specifically, the Authority and FRA prepared the Statewide Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) (Authority and FRA 2005) to evaluate the ability of the HSR system to meet the existing and future capacity demands on California's intercity transportation system. The Authority and FRA also prepared the Bay Area to Central Valley HSR Program EIR/EIS (Authority and FRA 2008) to identify a corridor alignment and the station locations for the connection between the Bay Area and the Central Valley.

The Authority and FRA are now undertaking second-tier, project environmental evaluations for several sections of the statewide system. This report is for the Palmdale to Burbank Project Section. This project section is approximately 38- to 44-mile long, and has multiple alignment alternatives under study. The project section extends through a variety of land uses and ecoregions, including urban, rural, and mountainous terrain. Each alignment alternative would involve areas of tunneling beneath the Angeles National Forest (ANF), including portions within the San Gabriel Mountains National Monument (SGMNM).

Each of the alternatives under analysis in the Palmdale to Burbank Project Section is divided in three subsections: Palmdale, Central and Burbank.

This report evaluates the impacts of High Risk utilities and major utilities (transmission) on the construction of the E1 Alternative for Palmdale to Burbank Section of the California HSR System.

This report is prepared at a 15% Design Level, and the information is compiled according to TM 2.7.4 Designer's Responsibilities and Utility Requirements. It discusses the E1 Alignment Alternative from Palmdale to Burbank. The utilities discussed in this report do not include storm drains. For information regarding storm drains, see Palmdale to Burbank Project Section PEPD Record Set Rev01 Stormwater Management Report Alignment E1.

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1 INTRODUCTION

The planning, design, construction, and operation of the California High-Speed Rail (HSR) System are the responsibility of the California High-Speed Rail Authority (Authority), a state governing board formed in 1996. The Authority's statutory mandate is to develop an HSR system coordinated with the state's existing transportation network, including intercity rail and bus lines, regional commuter rail lines, urban rail and bus transit lines, highways, and airports. The Authority's plans call for high-speed intercity train service on more than 800 miles of track throughout California, connecting the major population centers of Sacramento, the San Francisco Bay Area, the Central Valley, Los Angeles, the Inland Empire, Orange County, and San Diego. Implementation of the California HSR System is planned in two phases. Phase 1 would connect San Francisco to Los Angeles and Anaheim through the Central Valley. Phase 2 would connect the Central Valley (Merced Station) to Sacramento, and another extension is planned from Los Angeles to San Diego. The HSR system would meet the requirements of Proposition 1A, including maximum, nonstop service travel time between San Francisco and Los Angeles of two hours and 40 minutes.

The Palmdale to Burbank Project Section would be a critical link in the Phase 1 HSR system connecting San Francisco and the Bay Area to Los Angeles and Anaheim. In 2005, the Authority and the Federal Railroad Administration (FRA) relied on Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) documents to select the SR-58/Soledad Canyon and LACMTA/Metrolink corridors as the preferred alignment between Bakersfield and Sylmar, with a station in the City of Palmdale. This alignment would extend east from Bakersfield along SR-58, generally following SR-58 through the Tehachapi Mountains to Mojave, along LACMTA/Metrolink corridors through Antelope Valley and Soledad Canyon, and generally follow SR-14 from the City of Santa Clarita to Sylmar in the City of Los Angeles (FRA 2005). The SR-58/Soledad Canyon and LACMTA/Metrolink corridor from Bakersfield to Los Angeles was later split into two sections for more detailed project-level evaluation: the Bakersfield to Palmdale Section and the Palmdale to Los Angeles Section.

The alternatives for the Palmdale to Los Angeles Section were then defined through public scoping conducted for the Palmdale to Los Angeles Section in 2007, the alignment and station screening evaluation process described in the Palmdale to Los Angeles Preliminary Alternatives Analysis Report (PAA) (2010), and the Palmdale to Los Angeles Supplemental Alternatives Analysis (SAA) Reports (2011, 2012, and 2014).

A recommendation in the 2014 SAA Report in May 2014 was that the Palmdale to Los Angeles Section be divided into two sections (Palmdale to Burbank and Burbank to Los Angeles). Following this recommendation, a second public scoping period took place from July to September 2014. Following this public scoping period, the Palmdale to Burbank SAA Report (2015) was presented to the Authority Board of Directors in June 2015.

Subsequently, during the June 9, 2015 Board meeting, issues were raised regarding the alternatives presented in the 2015 SAA. Subsequent to the Board meeting, the Authority explored ways to refine the alternatives so as to address concerns raised at the Board meeting and through previous stakeholder outreach. The 2016 SAA, presented to the Authority Board of Directors in April of that year, reflects refinements to the rail alignments, stations, and ancillary features presented in the 2015 SAA.

This report documents the detailed technical description of the High Risk and Major utility impacts along rail alignment E1 Alternative for Palmdale to Burbank Section of the California HSR System with the refined station option at Burbank area. This report includes the following:

- Identifying owners of existing utilities to be impacted within the project footprint
- Classifying existing utilities as High Risk or Major utilities in order to identify those that could significantly impact the operation of the high speed train, or vice versa.
- Identifying other significant utility related facilities impacted within the project footprint.
- A matrix of impacted utilities and their relocation dispositions.

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2 PROJECT DESCRIPTION

The Palmdale to Burbank Project Section includes three potential alignments that would extend approximately 38- to 44-miles through a variety of land uses and ecoregions, including urban, rural, and mountainous terrain in Southern California. From the north, this project section would begin at Avenue L in Lancaster, travel south through the Palmdale Transportation Center (Palmdale TC) Station, continue southwest beneath the Angeles National Forest (ANF), and then enter the San Fernando Valley where it would connect with the Burbank Airport Station and terminate just north of Winona Avenue. This project section also includes a potential maintenance facility in the Lancaster area.

2.1 Alternatives

This section briefly describes the Palmdale to Burbank Project Section alternatives: Refined SR14, E1 and E2. Please refer to the Design Baseline Report for a complete General Project Description.

The HSR Build Alternatives for the Palmdale to Burbank Project Section include three end-to-end alignment alternatives. Each end-to-end alternative includes four subsections: Palmdale, Central, Burbank, and Maintenance Facility. Figure 2-1 depicts the general location of the Refined SR14, E1, and E2 Build Alternatives and key project features.



Figure 2-1 Palmdale to Burbank Alignment Alternatives

2.2 E1 Alternative

This section briefly describes the Palmdale to Burbank Project Section E1 Alternative.

Palmdale Subsection

The northern limit of the Palmdale Subsection is Avenue O in the City of Palmdale, on the west side of Sierra Highway. South of Avenue O, the alignment would run parallel to and approximately 200 feet west of the existing Metrolink Antelope Valley right-of-way. The alignment would enter the Palmdale TC after crossing East Avenue Q, approximately two miles south of Avenue O. The alignment would follow the existing 6th Street East right-of-way through the Palmdale TC.

The alignment would remain in the 6th Street East right-of-way until intersecting Avenue R. South of Avenue R, the alignment would continue for approximately 700 feet to a point east of Spruce Court, which is the southern limit of this subsection.

Central Subsection

The E1 Central Subsection would continue from the southern terminus of the Palmdale Subsection at-grade, and generally follow the existing Sierra Highway alignment. The alignment would continue at-grade across Una Lake. South of Una Lake, the E1 alignment would curve west, crossing the existing Sierra Highway and Metrolink corridors, which would be realigned to the east. In the vicinity of Una Lake, the alignment would cross the San Andreas Fault Zone at grade.

Between Una Lake and 0.2 mile south of the Enchanted Hills Road western terminus, the E1 alignment would traverse a series of viaducts and at-grade sections, and a cut and cover tunnel that would travel beneath the Pearblossom Highway/SR-14 freeway interchange, Sierra Highway, Metrolink corridor, Carson Mesa Road, and an extension of Mountain Springs Road.

Approximately 0.2 mile south of the Enchanted Hills Road western terminus, the E1 alignment would enter approximately 1.6-mile-long twin tunnels (maximum depth approximately 700 feet) that would pass beneath rural residences and then under the ANF (including the portion overlaid by the SGMNM).

The E1 alignment would exit the tunnels outside the ANF/SGMNM boundaries in the vicinity of Aliso Canyon Road. The alignment would continue at-grade before crossing a tributary of the Santa Clara River via a 700-foot-long viaduct. The E1 alignment would return to at-grade for approximately 300 feet until entering twin tunnels (22 miles in length, maximum depth approximately 2,200 feet) immediately west of Aliso Canyon Road. The initial 16.5 miles of the tunnels would travel beneath the ANF, including approximately 6 miles of SGMNM.

The E1 alignment would continue southwesterly from Aliso Canyon Road in twin tunnels toward Arrastre Canyon Road. The alignment would continue southwesterly from Arrastre Canyon Road beneath the ANF/SGMNM.

After crossing beneath Little Tujunga Canyon Road and the San Gabriel fault, the E1 Alternative would continue in a more southwesterly direction. The twin tunnels would pass through the San Gabriel fault zone and the Sierra Madre fault zone.

The alignment would emerge from tunnels east of the existing Antelope Valley Metrolink Corridor near Montague Street in the Pacoima neighborhood of Los Angeles.

From Montague Street, E1 would continue south in a retained cut/trench, transitioning up to ground level, passing over the existing Hansen Spreading Grounds on embankment, before going over the Los Angeles County Flood Control Channel on a bridge and entering the existing Metrolink corridor near Sheldon Street. Continuing along the eastside of the Metrolink Corridor, E1 would then travel south at-grade where it would cross over Tuxford Street and under the I-5 freeway. Continuing southeast from the I-5 undercrossing, the E1 alignment would transition below grade in an open trench to just north of Olinda Street. From just north of Olinda Street to just south of Sunland Boulevard, the E1 alignment would be below ground in a cut and cover box structure. Metrolink would remain on the surface and the Sun Valley Metrolink station would be reconstructed south of

Olinda Street on the surface. South of Sunland Boulevard the E1 alignment would continue in a mined or bored tunnel until reaching Lockheed Drive, the southern limit of this subsection.

Burbank Subsection

Lockheed Drive represents the northern limit of the E1 Burbank Subsection. From Lockheed Drive, the E1 alignment would continue in a mined or bored tunnel until passing Cohasset Street where would continue in a cut-and-cover box until entering the Burbank Airport Station. The Burbank Airport Station would be an underground station, beginning near Kenwood Street and extending to just north of Winona Drive and the Burbank Airport east/west runway.

Maintenance Facility

The E1 alignment would extend north of the Palmdale Subsection to Avenue L so as to include the area associated with a proposed maintenance facility as well as associated mainline rail alignment and ancillary features.

3 PURPOSE AND SCOPE

This report identifies the potential impacts to existing utilities from the proposed HSR alignment and improvements associated with the project. The preliminary investigation will identify High Risk and Major utilities affected by the proposed HSR track corridor, HSR station and systems facilities, upgraded UPRR and Metrolink facilities, bridge structures overcrossings, roadway grade changes and alignments, and drainage. This report focuses on the High Risk and Major Utilities that present the most significant impacts to the proposed E1 alignment.

The Authority's definitions of High and Low Risk utilities were used in this assessment (per TM 2.7.4).

High Risk Utilities are defined as existing facilities transporting the following materials, whether or not they are encased:

- Petroleum Products (jet fuel, crude oil, gas oil, gasoline, etc.)
- Oxygen
- Chlorine
- Toxic or flammable gases or liquids
- Natural gas pipelines of any size
- Underground electric supply lines that conduct greater than 300 volts (without effectively grounded metal sheaths)
- Water in pressured pipeline

Other High Risk Utilities that could Disrupt the Operation of CHSTP:

- Sanitary Sewer in pressured pipeline
- Storm Drain in pressured pipeline.

Low Risk Utilities include:

- Sanitary Sewer gravity pipelines
- Storm Drain gravity pipelines
- Fiber Optics communication lines
- Telecommunications lines

Major Utilities are defined as subsurface, above ground or overhead facilities used for transmission (or subtransmission) regardless of size, shape or method of conveyance. These would include:

- Overhead and subsurface power transmission lines, 50 kV or greater
- Fiber Optic/Telecommunications transmission lines
- Sanitary Sewer trunk lines, 12-inch diameter or greater
- (Storm Drains are not included in this report; see the Hydrology and Hydraulics Report Alignment E1 PEPD Record Set Rev01, September 2019).
- Minor Utilities are defined as any subsurface, above ground, or overhead facility used as distribution lines, or as service laterals to individual parcels or properties.

Note that not every utility type or size listed above exists in this subsection of the project.

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4 UTILITY INFORMATION COLLECTION

This section discusses the data collection efforts to map existing facilities and to identify the potential impacted facilities along the proposed E1 Alignment Alternative.

4.1 Data Sources

The design team reached out to both public and private utility owners whose facilities would potentially be affected by the proposed footprint of all three HSR alignment alternatives. The first solicitation effort to acquire as-built and utility service maps was to send letters, with exhibits depicting the proposed alignments, to all utility owners within the potential project footprint. The next course of action was to follow up with emails and phone calls if the utility owner was not responsive. A utility owner contact log has been established as a living document to record the due diligence taken during information gathering stage of this study (See Appendix C).

In addition, utility record drawings and as-built information will be collected from various sources including public agencies (navigatela.lacity.org), third-party drawings and respective stakeholders. Site visualization and Google Earth map were also used to identify and/or confirm various above ground and aerial facilities.

4.2 Utility Owners – As-Built Drawings and Service Maps

Existing utility record maps and as-built drawings can vary in accuracy, depending upon the time and method of preparation.

Ideally, we would have received as-built engineering drawings and electronic maps in GIS, Microstation, or AutoCAD from every utility owner. Unfortunately, this was rarely the case. We received information in a variety of formats, with varying levels of detail. Formats received from utility owners included:

- As-built engineering drawings (hard copy, pdf)
- Service maps (GIS, Microstation, AutoCAD)
- Facility maps (hard copy, pdf)
- Various forms of vague mapping with little to no detail (various)

From each owner who couldn't provide as-built drawings, we attempted to collect some form of mapping that showed the location of each pipe or conduit in relation to the street centerline, pipe size, and material.

4.3 Web-based Geographic Information Systems

The City of Palmdale's online GIS verifies the water utility service zoning within Palmdale. The primary water service providers are the Palmdale Water Department and Los Angeles County Waterworks Department. However, this GIS information does not specify where the pipes are relative to the street centerlines.

Los Angeles County Flood Control District's (LACFCD) GIS data shows existing storm drains without specifying distance from the street centerline. For known owners, the GIS provides a link to the as-built. In Palmdale, only sizes are shown and the owners are listed as unknown.

SCE's Distributed Energy Resource Interconnection Map (DERiM) shows its transmission and sub transmission line, distribution and subtransmission substations within the map. Information provided includes voltage rating, circuit name, substation, and system.

4.4 Google Map Overlays

SoCal Gas's website uses an overlay of the gas transmission and distribution line within Google Maps. It shows approximation of its utility alignment and no information of its pipe sizes.

The Center for Land Use Interpretation displays in three part web resources for LADWP facility information and location that overlay google maps within its website. Part 1 shows locations and brief information about LADWP source of power. Part 2 shows locations and brief information about receiving stations, converter stations, switching stations, and other control facilities. Part 3 shows location and brief information about LADWP local distribution stations within their network.

4.5 Google Map Street View

This method was used to verify above ground structures such as utility poles, above ground vaults and utility cabinets, maintenance holes for sanitary sewers and storm drains, and standpipes for water valves.

5 UTILITY IMPACTS

Utility impacts along the E1 Alignment Alternative are grouped into two risk categories, and two significant scale categories:

- High Risk Utilities
- Low Risk Utilities
- Major Utilities
- Minor Utilities

This report focuses on the evaluation of impacted High Risk and Major Utilities along the E1 Alignment Alternative.

5.1 Significant Impacts

High Risk and Major Utilities as listed above that may impact the operations are defined as “Significant Impacts”. High Risk utilities identified in this rail alignment of the project include natural gas lines and pressurized water lines. “Major” refers to Low Risk Utilities that are also critical in transmission of services. Major utilities identified in this subsection of the project include gravity sanitary sewer trunk lines and overhead power transmission lines.

Reference Table 5-1 for the total count of “Significant Impacts.” For more detailed information, see the utility logs in Appendix B.

Table 5-1 Significant Utility Impacts

	E1
All High Risk	241
Major Low Risk	139
TOTAL	380

5.2 High Risk

High Risk utilities are defined as petroleum products, oxygen, chlorine, toxic or flammable gases or liquids, all sizes of natural gas pipelines, underground power supplies, pressurized water pipelines, and pressurized sewers. For the list of all high-risk utilities within the footprint, see Appendix B. Ongoing updates to the utility composite sheet will reflect updates to this report.

5.2.1 Petroleum Products (Oil, Gasoline, Crude)

Utility map reveals a notable impacted two oil lines within San Fernando Road. The owner of 20-inch oil line is Plains All American Pipeline and lies within the Metrolink right of way. The impact area are from the Sheldon Street and San Fernando Road grade change extending 2200 feet. Another grade change at Tuxford Street and San Fernando Road could impact up to 800 feet of the oil line.

The second impact is to the 8-inch idle oil line owned by Exxon-Mobil. It lies within the City of Los Angeles right of way. The impacted utility extends 2200 feet at Sheldon Street and San Fernando Road grade change and 800 feet at the Tuxford Street and San Fernando Road grade change.

Table 5-2 Oil Line Impacts

	E1
Oil	16

5.2.2 Natural Gas

Utility maps in Palmdale indicates a 10-inch transmission line within the longitude of East Avenue O and veers south 10 feet east offset from Lockheed Advanced Development property line. One 6-inch

diameter high pressure distribution line along East Avenue Q. Notable impacted natural gas lines are the two 30-inch transmission lines along Ease Avenue S. The Southern California Gas Company owns these pipelines.

Within the City of Los Angeles and City of Burbank area, the impacted existing SCG gas distribution mains range from 8-inch to 12-inch.

Reference Table 5-3 for the total count of impacted natural gas lines. Refer to Appendix B for more detailed information.

Table 5-3 Natural Gas Impacts

	E1
Natural Gas	69

5.2.3 Water Utilities

Several waterlines will be impacted by the footprint: the proposed HSR alignments, the proposed Palmdale Station, Burbank Station, and the associated roadway network realignments. The owners of the impacted facilities include Palmdale Water District, Los Angeles County Waterworks District 40 – Region 34 and District 37, Antelope Valley – East Kern County Water Agency (AVEK) Los Angeles Department of Water and Power – Water Services (LADWP-WS), Burbank Water and Power (BWP), and Metropolitan Water District (MWD). Both transmission and distribution lines are included because water is defined as high risk, therefore all water pipes are considered to have significant impacts. Two wholesale water agency AVEK and MWD are impacted and crucial to cities water supply. Utility sizes vary from 8-inch to 48-inch diameter.

Reference Table 5-4 for the total count of impacted water lines. For more detailed information, see the utility logs in Appendix B.

Table 5-4 Water Line Impacts

	E1
Water Lines	154

5.2.4 Underground Power Utilities

Impacted underground power identified from City of Los Angeles substructure map lies at Tuxford Street and San Fernando Boulevard under I-5 Freeway. The owner of the impacted facility is Los Angeles Water and Power – Power Services. The voltage rating is not verified; however, conduit counts of the underground power is noted on substructure map.

Reference Table 5-5 for the total count of underground power lines. For more detailed information, see the utility logs in Appendix B.

Table 5-5 Underground Power Line Impacts

	E1
UG Power lines	2

5.3 Major Utilities

Based on the utility research conducted, two types of major utilities were identified along the E1 Alignment Alternative: overhead power and trunk sanitary sewers.

5.3.1 Overhead Power Facilities

The existing overhead power transmission/sub-transmission lines crossing the proposed HSR alignment and road realignments have been identified as having potential impacts by the project. These overhead lines are 66kV facility that belongs to SCE.

Table 5-6 depicts the total count of impacted power transmissions. For more detail information, see the utility logs in Appendix B.

Table 5-6 Overhead Power Line Impacts

	E1
Power OH Lines	59

5.3.2 Sanitary Sewer Transmission and Collection Lines

Similarly, several sanitary sewers will be impacted by the footprint: the proposed E1 alignments, the proposed Palmdale Station, the proposed Burbank Station, the associated roadway network realignments, and differential grading. These trunk sewers, 12-inch diameter and greater, are owned and operated by the City of Palmdale Sanitary Maintenance District and City of Los Angeles.

Reference Table 5-7 for total count of impacted major sewer lines. For more detail information, see the utility logs in Appendix B.

Table 5-7 Sanitary Line Impacts

	E1
San Sewer Lines	80

5.4 Other Significant Utility Related Facilities

Based on the utility research conducted, facilities crucial for the operation of the city’s infrastructure are affected by the proposed HSR construction. These facilities are power receiving station, potable water trunk line feeder and control structure, and whole sale water supply connection. The impacted facilities are recommended for an advance relocation to continue uninterrupted services to the city.

5.4.1 SCG Control Structure

The proposed HSR alignment partially impacts the existing SCG Control Structure 550 feet east of East Avenue S and East 10 Street intersection in Palmdale. The proposed East Avenue S realignment swerves north offset to the existing East Avenue S between East 5th Street and Windy Creek Street. The proposed northerly edge of sidewalk encroaches up to 25 feet from SCG’s existing property line with potential impacts to SCG’s control station appurtenances.

5.4.2 Palmdale Ditch Enclosure

The proposed HSR alignment impacts the existing Palmdale Water District Ditch Enclosure. The 48-inch RCP ditch enclosure conveys water shed run-off from Little Rock Reservoir to Lake Palmdale.

5.4.3 LADWP-PS Transmission Tower at RS-M

The proposed HSR alignment passes two existing transmission power towers within the LADWP receiving station at San Fernando Road and Sheldon Street. The power towers connect to the power corridor adjacent to Tujunga Wash channel which leads to the Fulton Distribution Station (DS-62). LADWP-PS did not disclose its voltage rating; however, the Center for Land Use Interpretation indicates the transmission power lines ranges from 115-230 kV and power line to the distribution station has a step-down to 34.5 kV. The proposed CHSR track is 4’-10” above existing grade. The clearance required for rail with OCS and 550kV Transmission line is 34 feet from track (Case 2, Colum G per CPUC Table 1). Verify in the next phase of the design the lowest transmission crossing to insure the clearance are met.

5.5 Permitting

All impacted utilities will be relocated within the project footprint, as indicated in the Composite Utility Plans package. Based on our investigation with various agencies, for moving the project forward to the construction, various utility agency permits or approvals shall be required. Completion of permit applications will be part of a subsequent design phase. Table 5-8 summarizes some of the major agency's permits or approvals required.

Table 5-8 Permits or Approvals for E1 Alignment Alternative

Agency	Permits and Approval	Comments
Authority	Refer to Caltrans Encroachment Permits (Form TR-0100): 1.Encroachment Permit Fee Calculation Sheet 2. Fee Schedule for type of encroachment and access. 3.Encroachment Permit Check List	
SCRRRA (Metrolink)	1.Written Statement of reasoning , location and duration for Encroachment 2.Application for Encroachment Permits 3. Plan and Profile drawings 4.Schedule 5.Existing License Agreement	
City of Palmdale	Encroachment Permits W/Traffic Control Plan (To Building and Safety)	
Private Parcel (within Palmdale)	Easement Agreement (To City of Palmdale Engineering)	
Los Angeles County Public Works (Land Development Division)	Pre-Application with 4 set of plan	Unincorporated Areas within Los Angeles County.
City of Los Angeles	1. Construction "A" Permit (water and gas meter) 2. Construction "B" Permit (installation of sewer and storm drains) 3. Excavation "U" Permits (trenching and shoring)	
CALTRANS	Encroachment Permits (refer to CALTRANS utility permit Codes)	
City of Burbank	1. Excavation/Construction Permit 2. Utility Excavation Permit	

5.6 Operation and Maintenance

The facility relocation concept has been incorporated with the consideration to maintain undisrupted operation to the Authority and its ancillaries. In order to provide a safe environment for operation of the HSR project, minimize the disruption to the traveling public, and assure safety of Authority personnel and patrons during its operations, all proposed utility maintenance access, vault, and appurtenances will be located outside of the Authority's right of way.

6 REFERENCES

The Center for Land Use Interpretation Website: <http://www.clui.org/section/ladwp-power>

CHSTP In-Progress Draft Technical Memorandum Designer's Responsibilities and Utility Requirements for 15% Design Level TM 2.7.4, November 20, 2008.

State of California Public Utilities Commission, General Order No. 95 (Overhead Electric Line Construction):

<http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M146/K646/146646565.pdf>, January 2015.

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APPENDIX A: UTILITY CONTACT INFORMATION

E1 Alignment– Utility Contact Information

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
1	SENER	Los Angeles Department of Water and Power (LADWP)	Charles Dunn	Engineer of Underground Structures Group	111 N. Hope Street, Room 1031	Los Angeles, CA 90012	(213) 367-2715	Charles.Dunn@LADWP.Com
2	SENER	Los Angeles Department of Public Works (LADPW)	Daryll Chenoweth	Utility Coordination Unit, Head	900 S.Fremont Ave	Alhambra, CA 91803	(626) 458-3109	dchenowe@dpw.lacounty.gov
3	SENER	City of Palmdale	Jim Deyo	Department of Public Works	38250 Sierra Hwy	Palmdale, CA 93550	(661) 267-5347	jdeyo@cityofpalmdale.org
4	SENER	Palmdale Water District	Mike West	Engineering Design Technician	2029 E Avenue Q	Palmdale, CA 93550	(661)-947-1022	mwest@paldalewater.org
5	SENER	Southern California Gas (SCG) - Transmission	Chris Coria Estafania Sanchez Rosalyn Squires Carlos Gaeta		9400 Oakdale Ave	Chatsworth, CA 91311	818-701-3253 (Chris Coria) (818) 701-6679 (818) 701-3474 (Carlos)	Ccoria@semprautilities.com cagaeta@semprautilities.com rsquires@semprautilities.com
6	SENER	AT&T Distribution	Mary Ramos		600 East Green St	Pasadena, CA 91101	(510) 645-2929	ma2797@att.com
7	SENER	AT&T Transmission (Telephone)	Joseph Forkert Walter Westriuk		22311 Brookhurst St, Suite 203	Huntington Beach, CA 92646	(714) 963-7964	joef@forkertengineering.com
8	SENER	AT&T Transmission	Maria Guzman		420 S Grand Ave, RM 707	Los Angeles, CA 90071	(213) 787-9996	mg1371@att.com
9	SENER	Time Warner Cable (Charter)	Dave Bell		3041 E. Mira Loma Ave	Anaheim, CA 92806	(714) 591-4878	dave.bell@charter.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
10	SENER	Time Warner Cable (Telephone)	Dianell Caamano		41551 10th St West	Palmdale, CA 93551	(661) 259-6909	dianell.caamano@twcable.com
11	SENER	State of California, Department of Water Resources	Jaime Desantiago	Project Engineer	P.O. Box 1187	Pearblossom, CA 93553	(661) 994-8574	jdes@water.ca.gov
12	SENER	Los Angeles County Sanitary District (LACSD)	Koesen Lipock	Engineer	1955 Workman Mill Road	Whittier, CA 90601	(562) 908-4288	Klipock@lacsds.org
13	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	Sam Queszada	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-5100	squeszada@dpw.lacounty.gov
14	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	Hank Fung	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-3980	hfung@dpw.lacounty.gov
15	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	Jeff Chow	Engineer	1000 S Fremont Ave	Alhambra, CA 91803	(626) 300-4753	jchow@dpw.lacounty.gov
16	SENER	Los Angeles County Water Works	Jason Kitto	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 300-3337	jkitto@dpw.lacounty.gov
17	SENER	Newhall County Water	Josh Jenkins	Engineer	PO Box 220970	Newhall, CA 91322	(661) 259-3610	jjenkins@ncwd.org
18	SENER	Air Touch Cellular (Telephone)	Matthew Kang	Engineer	10640 Sepulveda Blvd, Ste 1	Mission Hills, CA 91345	(818) 898-2352	matthew.kang@cableneg.com
19	SENER	Metropolitan Water District	Shoreh Zareh	Engineer	700 N Alameda St	Los Angeles, CA 90012	(213) 217-7474	szareh@mwdd20.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
20	SENER	Plains All American Pipeline (Oil)	Becky Sitton	Engineer	5900 Cherry Ave	Long Beach, CA 90805	(562) 728-2817	bsitton@paalp.com
21	SENER	T-Mobile (Telephone)	Gregg Lake	Engineer	7543 Woodley Ave, Suite 201	Van Nuys, CA 91406	(818) 840-0808	glake@synergy.cc
22	SENER	XO Communications (Telephone) - Los Angeles	Matt Bergine	Engineer	1924 Deere Ave	Santa Ana, CA 92705	(949) 417-7841	matt.bergine@xo.com
23	SENER	Southern California Gas (SCG) - Distribution	Timothy Bruce	Engineer	9400 Oakdale Ave,	Chatsworth, CA 91311.	(818) 701-3335	tbruce@semprautilities.com
24	SENER	Level 3 Communications (Telephone)	Felix Vigil		818 W 7th St, Suite 700	Los Angeles, CA 90017	(213) 929-2126	felix.vigil@level3.com
25	SENER	Southern California Edison (SCE) - Overhead Power Transmission	Kim Gurule		14799 Chestnut St	Westminster, CA 92683	(714) 796-9932	maprequests@sce.com
26	SENER	Southern California Edison (SCE) - Telecom	Tommy Savage		501 S Marengo Ave	Alhambra, CA 91802	(626) 308-6186	tommy.savage@sce.com

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APPENDIX B: HIGH RISK AND MAJOR UTILITY INFORMATION LOG

E1 Alignment – Utility Information Log – (High Risk & Major Utility)

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
1	SENER	SO CAL GAS	E1	UT-C4001-PLM	102+50	Sierra Hwy/E Ave O	NATURAL GAS	10" H SL	PSI	715'		TO BE RELOCATED
2	SENER	SO CAL GAS	E1	UT-C4002-PLM, UT-C4003-PLM,	122+50 to 156+35	Sierra Hwy/Lockheed Way	NATURAL GAS	4" PA	PSI	4583'		TO BE REMOVED
3	SENER	SO CAL GAS	E1	UT-C4002-PLM	129+16	Lockheed Way	NATURAL GAS	3" PA	PSI	484'		TO BE REMOVED
4	SENER	CITY OF PALMDALE	E1	UT-C4002-PLM	129+20	Lockheed Way	SEWER	18" VCP	CFS	1704'		TO BE RELOCATED
5	SENER	CITY OF PALMDALE	E1	UT-C4002-PLM	129+50	Lockheed Way	SEWER	12" VCP	CFS	1738'		TO BE REMOVED
6	SENER	LACWD	E1	UT-C4002-PLM	129+80	Lockheed Way	WATER	20" DIP	PSI	1015'		TO BE RELOCATED
7	SENER	SCE	E1	UT-C4003-PLM, UT-C4502-PLM, UT-C4503-PLM, UT-C4504-PLM	153+10	Sierra Hwy/Ranch o Vista Blvd	OH POWER	12/66 kV	kV	5360'		TO BE RELOCATED
8	SENER	PALMDALE WD	E1	UT-C4003-PLM, UT-C4503-PLM	156+50	Sierra Hwy/Ranch o Vista Blvd	WATER	12" STL	PSI	2750'		TO BE RELOCATED
9	SENER	PALMDALE WD	E1	UT-C4004-PLM	175+20 to 198+00	Sierra Hwy/5th St	WATER	12" ACP	PSI	943'		TO BE RELOCATED
10	SENER	PALMDALE WD	E1	UT-C4004-PLM, UT-C4005-PLM	190+00 to 196+00	Sierra Hwy	WATER	8" DIP	PSI	747'		TO BE REMOVED
11	SENER	LACSD	E1	UT-C4004-PLM	191+70	Sierra Hwy	SEWER	42" VCP	PSI	1370'		TO BE RELOCATED
12	SENER	PALMDALE WD	E1	UT-C4005-PLM	196+50 to 210+00	Sierra Hwy/5th St	WATER	12" DIP	PSI	2037'		TO BE RELOCATED
13	SENER	PALMDALE WD	E1	UT-C4005-PLM	202+50	Clock Tower Plaza Dr/Ave P-14	WATER	8" DIP	PSI	710'		TO BE REMOVED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
14	SENER	SCE	E1	UT-C4005-PLM	208+50	E Ave O-8/ Sierra Hwy	OH POWER	66 KV	KV	1000'		TO BE RELOCATED
15	SENER	SCE	E1	UT-C4005-PLM	208+50	Sierra Hwy/Ave Q	OH POWER	66 kV	kV	2846'		TO BE RELOCATED
16	SENER	LACSD	E1	UT-C4005-PLM	209+90	5th St/Ave Q/Sierra Hwy	SEWER	15" VCP	CFS	1220'		PROPOSED JACK AND BORE WITH CASING
17	SENER	LACSD	E1	UT-C4005-PLM	209+90	5th St/ Ave Q/Sierra Hwy	SEWER	18" VCP	CFS	1184'		PROPOSED JACK AND BORE WITH CASING
18	SENER	PALMDALE WD	E1	UT-C4005-PLM	210+20	5th St/ Ave Q/Sierra Hwy	WATER	12" DIP	PSI	1800'		RELOCATED W/JACK AND BORE
19	SENER	PALMDALE WD	E1	UT-C4005-PLM		Sierra Hwy	WATER	12" ACP	PSI			PROTECT IN PLACE
20	SENER	CITY OF PLAMDALE	E1	UT-C4005-PLM	210+00 to 240+50	Sierra Hwy	SEWER	10" VCP	CFS	3090'		TO BE REMOVED
21	SENER	SO CAL GAS	E1	UT-C4005-PLM	209+80	Ave Q/Sierra Hwy	NATURAL GAS	6"	PSI	1725'		RELOCATE PROPOSED JACK AND BORE WITH CASING
22	SENER	PALMDALE WD	E1	UT-C4006-PLM	220+00 to 245+00	Sierra Hwy	WATER	12" STL	PSI	2400'		TO BE REMOVED
23	SENER	CITY OF PALMDALE	E1	UT-C4006-PLM, UT-C4004-PLM, UT-C4506-PLM	240+60	Palmdale Blvd	SEWER	8" VCP	CFS	3041'		TO BE RELOCATED
24	SENER	PALMDALE WD	E1	UT-C4006-PLM	240+50	Ave 9	WATER	8" DIP	PSI	190'		TO BE RELOCATED
25	SENER	PALMDALE WD	E1	UT-C4006-PLM	238+50	6th St/Ave Q-9	WATER	12" DIP	PSI	2515'		TO BE RELOCATED
26	SENER	PALMDALE WD	E1	UT-C4006-PLM, UT-C4507-PLM	237+90	6 th St	WATER	12" PVC	PSI	1393'		TO BE REMOVED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
27	SENER	PALMDALE WD	E1	UT-C4006-PLM	237+50 to 240+00	Palmdale Blvd	WATER	16" DIP	PSI	205'		TO BE RELOCATED
28	SENER	PALMDALE WD	E1	UT-C4007-PLM, UT-C4509-PLM, UT-C4510-PLM	245+00 to 270+00	Palmdale Blvd/Sierra Hwy	WATER	12" DIP	PSI	2790'		TO BE RELOCATED
29	SENER	SCE	E1	UT-C4007-PLM, UT-C4509-PLM, UT-C4510-PLM	265+60	6 th St	OH POWER	66 kV	kV	3166'		TO BE RELOCATED
30	SENER	PALMDALE WD	E1	UT-C4007-PLM	245+00 to 270+00	East Ave R	WATER	12" PVC	PSI	848'		TO BE RELOCATED
31	SENER	PALMDALE WD	E1	UT-C4007-PLM	265+50	6 th St	WATER	12" DIP	PSI	1262'		TO BE RELOCATED
32	SENER	CITY OF PALMDALE	E1	UT-C4007-PLM	245+00 to 270+00	East Ave	SEWER	8" VCP	CFS	2225'		TO BE RELOCATED
33	SENER	PALMDALE WD	E1	UT-C4006-PLM		6 th St	WATER	12"		4703'		TO BE RELOCATED
34	SENER	AT&T	E1	UT-C4005-PLM, UT-C4002-PLM	195+00 to 220+00	SIERRA HWY	FIBER OPTIC	4-1.5"		4012'		PROTECT IN PLACE
35	SENER	AT&T	E1	UT-C4006-PLM	220+00 to 245+00	SIERRA HWY	FIBER OPTIC	4-1.5"		3012'		PROTECT IN PLACE
36	SENER	PALMDALE WD	E1	UT-C4501-PLM, UT-C4502-PLM	156+50	3rd St E/Rancho Vista Blvd/Fairway Dr	WATER	14" STL	PSI			PROTECT IN PLACE
37	SENER	PALMDALE WD	E1	UT-C4508-PLM,		East Ave R	WATER	12" DIP	PSI			PROTECT IN PLACE
38	SENER	SCE	E1	UT-C4508-PLM,		East Ave R	OH POWER	66 kV	kV			PROTECT IN PLACE
39	SENER	PALMDALE WD	E1	UT-C4505-PLM		Technology Dr/8th St	WATER	12" DIP	PSI			PROTECT IN PLACE
40	SENER	SCE	E1	UT-C4511-PLM	110+00 to 130+00	AVE Q	OH POWER	66 kV	kV	2000'		TO BE RELOCATED
41	SENER	LACSD	E1	UT-C4005-PLM	210+00	Ave Q/Sierra Hwy W of CI	SEWER	10"	CFS	1200'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
42	SENER	LACSD	E1	UT-C4005-PLM	145+00	Ave Q/Sierra Hwy E of CL	SEWER	8" VCP	CFS	500'		TO BE REMOVED
43	SENER	AT&T	E1	UT-C4001-PLM, UT-C4003-PLM	100+00 to 145+00	Sierra Hwy	FIBER OPTIC	4-1.5"		4500'		PROTECT IN PLACE
44	SENER	AT&T	E1	UT-C4001-PLM,	100+00 to 145+00	Sierra Hwy	FIBER OPTIC	UNKN		4500'		PROTECT IN PLACE
45	SENER	CITY OF PALMDALE	E1	UT-C4002-PLM	122+00 to 145+00	6th St/Ave Q/Sierra Hwy	SEWER	15" VCP	CFS	2300'		TO BE REMOVED
46	SENER	PALMDALE WD	E1	UT-C4002-PLM	125+00 to 134+00	Sierra Hwy/Ave Q/Palmdale Blvd	WATER	16" DIP	PSI	900'		TO BE REMOVED
47	SENER	SO CAL GAS	E1	UT-C4002-PLM	120+00 to 130+00	Sierra Hwy/E Ave O	NATURAL GAS	10" H SL	PSI	1000'		PROTECT IN PLACE
48	SENER	SCE	E1	UT-C4003-PLM	153+00	Sierra Highway / Rancho Vista Blvd	UG POWER	12/66 kV	kV	591'		TO BE RELOCATED
49	SENER	TWC	E1	UT-C4003-PLM	156+75	Rancho Vista Blvd	TELE	6-2"		1303'		TO BE RELOCATED
50	SENER	LACSD	E1	UT-C4005-PLM	210+00	Sierra Hwy/E Ave O-8	SEWER	18" VCP	CFS	1704'		PROTECT IN PLACE
51	SENER	CITY OF PALMDALE	E1	UT-C4005-PLM	210+00 to	Sierra Hwy	SEWER	8"VCP				TO BE RELOCATED
52	SENER	PALMDALE WD	E1	UT-C4005-PLM UT-C4006-PLM	146+00	Sierra Hwy/Ave Q/Palmdale Blvd	WATER	4"	PSI	3000'		TO BE REMOVED
53	SENER	CITY OF PALMDALE	E1	UT-C4006-PLM	220+00 to 245+00	6 th St E/ E Palmdale Blvd	SEWER	10"	PSI	5000'		TO BE REMOVED
54	SENER	CITY OF PALMDALE	E1	UT-C4006-PLM	240+50	6 TH St E/ E Palmdale	SEWER	8"	PSI	250'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
55	SENER	CITY OF PALMDALE	E1	UT-C4006-PLM	238+00	6 TH St	SEWER	8"	PSI	400'		TO BE REMOVED
56	SENER	CITY OF PALMDALE	E1	UT-C4006-PLM	230+20	AVE Q SIX/Fifth ST E	WATER	6"	PSI	900'		TO BE REMOVED
57	SENER	CITY OF PALMDALE	E1	UT-C4006-PLM	230+20	AVE 9	SEWER	8"	PSI	300'		TO BE RELOCATED
58	SENER	PALMDALE WD	E1	UT-C4006-PLM	221+00	AVE Q THREE	WATER	10"	PSI	580'		TO BE REMOVED
59	SENER	AT&T	E1	UT-C4007-PLM	245+00 to 270+00	Sierra Hwy	FIBER	4-1.5"	PSI	3500'		PROTECT IN PLACE
60	SENER	AT&T	E1	UT-C4007-PLM	245+00 to 270+00	Sierra Hwy	FIBER OPTIC	4-1.5"		3500'		TO BE RELOCATED
61	SENER	PALMDALE WD	E1	UT-C4007-PLM	249+80	Sierra Hwy	WATER	8"	PSI	190'		REMOVE/ RECONNECT
62	SENER	CITY OF PALMDALE	E1	UT-C4007-PLM	255+00	Sierra Hwy	SEWER	8"	PSI	150'		REMOVE/ RECONNECT
63	SENER	PALMDALE WD	E1	UT-C4007-PLM	255+00	Sierra Hwy	WATER	8"	PSI	150'		REMOVE/ RECONNECT
64	SENER	CITY OF PALMDALE	E1	UT-C4007-PLM	257+20	Sierra Hwy	SEWER	8"	PSI	500'		REMOVE/ RECONNECT
65	SENER	CITY OF PALMDALE	E1	UT-C4007-PLM	258+80	Sierra Hwy	SEWER	8"	PSI	650'		REMOVE/ RECONNECT
66	SENER	PALMDALE WD	E1	UT-C4007-PLM	258+80	Sierra Hwy	WATER	8"	PSI	400'		REMOVE/ RECONNECT
67	SENER	CITY OF PALMDALE	E1	UT-C4007-PLM	263+50	Sierra Hwy	SEWER	8"	PSI	600'		TO BE REMOVED
68	SENER	PALMDALE WD	E1	UT-C4007-PLM	264+00	East Ave R	WATER	8"	PSI	3000'		TO BE RELOCATED
69	SENER	CITY OF PALMDALE	E1	UT-C4007-PLM	265+00	Sierra Hwy	SEWER	8"	PSI	300'		TO BE RELOCATED
70	SENER	CITY OF PALMDALE	E1	UT-C4007-PLM	264+00	Sierra Hwy	SEWER	8"	PSI	300'		PROPOSED
71	SENER	PALMDALE WD	E1	UT-C4007-PLM	259+00	Sierra Hwy	WATER	8"	PSI	390'		REMOVE/RECONNECT

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
72	SENER	PALMDALE WD	E1	UT-C4501-PLM		Rancho Vista Blvd	WATER		PSI	1100'		PROTECT IN PLACE
73	SENER	CITY OF PALMDALE	E1	UT-C4501-PLM		Rancho Vista Blvd	SEWER		CFS	1850'		PROTECT IN PLACE
74	SENER	SCE	E1	UT-C4501-PLM		Rancho Vista Blvd	OH POWER	12/66 KV	KV	3000'		PROTECT IN PLACE
75	SENER	TWC	E1	UT-C4502-PLM		Rancho Vista Blvd	TELECOM	6-2"	PSI	2440'		PROTECT IN PLACE
76	SENER	UNKNOWN	E1	UT-C4502-PLM		Third ST	SEWER	UNKNO WN	PSI	1310'		PROTECT IN PLACE
77	SENER	CITY OF PALMDALE	E1	UT-C4503-PLM		Rancho Vista Blvd	SEWER	15"	PSI	2300'		PROTECT IN PLACE
78	SENER	PALMDALE WD	E1	UT-C4503-PLM		Rancho Vista Blvd	WATER	12"	PSI	2000'		PROTECT IN PLACE
79	SENER	TWC	E1	UT-C4503-PLM		Rancho Vista Blvd	TELE	6-2"	PSI	1500'		PROTECT IN PLACE
80	SENER	TWC	E1	UT-C4503-PLM		Rancho Vista Blvd	TELE	6-2'	PSI	50'		TO BE RELOCATED
81	SENER	CITY OF PALMDALE	E1	UT-C4504-PLM		Rancho Vista Blvd	SEWER	15"	CFS	1275'		PROTECT IN PLACE
82	SENER	LACSD	E1	UT-C4505-PLM		Technology Dr	SEWER	42"	PSI	3000'		PROTECT IN PLACE
83	SENER	CITY OF PLAMDALE	E1	UT-C4507-PLM		E Palmdale Blvd/Tenth St	SEWER	8"	CFS	980'		TO BE REMOVED
84	SENER	CITY OF PALMDALE	E1	UT-C4507-PLM		E Palmdale Blvd/ Tenth St	SEWER	8"	CFS	1000'		TO BE RELOCATED
85	SENER	CITY OF PALMDALE	E1	UT-C4508-PLM		East Ave R	SEWER	10"	PSI	660'		PROTECT IN PLACE
86	SENER	CITY OF PALMDALE	E1	UT-C4509-PLM		East Ave R	SEWER	10"	PSI	2000'		PROTECT IN PLACE
87	SENER	CITY OF PALMDALE	E1	UT-C4510-PLM		AVE R	SEWER	8"	PSI	620'		TO BE RELOCATED
88	SENER	CITY OF PALMDALE	E1	UT-C4510-PLM		AVE R	SEWER	8"	PSI	280'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
89	SENER	SCE	E1	UT-C4512-PLM		AVE Q	OH POWER	66 KV	KV	150'		TO BE RELOCATED
90	SENER	LACSD	E1	UT-C4006-PLM	224+00 to 227+00	Ave Q/ 5 th St	SEWER	8"	PSI	750'		TO BE REMOVED
91	SENER	UNKNOWN	E1	UT-C4006-PLM	237+80	Palmdale Blvd	UG ELECTRIC	UNKNO WN	PSI	700'		TO BE RELOCATED
92	SENER	PALMDALE WD	E1	UT-C4006-PLM	237+80	Palmdale Blvd	WATER	12" STL	PSI			TO BE REMOVED
93	SENER	AT&T	E1	UT-C4002-PLM	120+00 to 145+00	Sierra Highway	FIBER OPTIC	UNKNO WN	PSI	1600'		PROTECT IN PLACE
94	SENER	CITY OF PALMDALE	E1	UT-C4002-PLM	127+00 to 134+00	Sierra Highway	SEWER	15"	PSI	450'		TO BE REMOVED
95	SENER	AT&T	E1	UT-C4002-PLM	129+00	Lockheed Way	FIBER OPTIC	4-1.5"	KV	1000'		TO BE RELOCATED
96	SENER	AT&T	E1	UT-C4004-PLM	175+00	Sierra Highway	FIBER OPTIC	4-1.5'	KV	1000'		TO BE RELOCATED
97	SENER	PALMDALE WD	E1	UT-C4005-PLM	210+00 to 220+00	Sierra Hwy	WATER	12"	PSI	1500'		TO BE REMOVED
98	SENER	SCG	E1	UT-C4502-PLM		Rancho Vista Blvd	GAS	4"	PSI	200'		TO BE REMOVED
99	SENER	PALMDALE WD	E1	UT-C4506-PLM		PALMDALE BLVD	WATER	12"	PSI	1100'		PROTECT IN PLACE
100	SENER	PALMDALE WD	E1	UT-C4008-E1	291+00 To 301+62	Sierra Hwy/Ave R-8	WATER	16" STL	PSI	500'		PROTECT IN PLACE
101	SENER	CITY OF PALMDALE	E1	UT-C4008-E1	270+00 to 275+00	Ave R/6th Str E south	SEWER	8" VCP	CFS	2225'		TO BE RELOCATED
102	SENER	PALMDALE WD	E1	UT-C4008-E1	264+00 to 276+00	Ave R/6th Str E south	WATER	12" DIP	PSI	1262'		TO BE RELOCATED
103	SENER	PALMDALE WD	E1	UT-C4008-E1	290+62	6th St E/Ave R-8/Sierra Hwy	WATER	12" STL	PSI	582'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
104	SENER	US SPRINT	E1	UT-C4008-E1	284+30 to 295+00	Sierra Hwy / Ave R-8	FIBER OPTIC	UNKNO WN		1140'		PROTECT IN PLACE
105	SENER	PALMDALE WD	E1	UT-C4008-E1	291+40 to 295+00	Sierra Hwy / Ave R-8	WATER	8" (ABAN)	PSI	360'		PROTECT IN PLACE
106	SENER	PALMDALE WD	E1	UT-C4009-E1	301+62 to 318+12	Seirra Hwy, B/W E Ave R11 and Harold Cedar Ave	WATER	16" DIP	PSI	1670'		TO BE RELOCATED
107	SENER	PALMDALE WD	E1	UT-C4009-E1, UT-C4513-E1	317+76	E Ave S/E 10 th St	WATER	16" STL	PSI	824'		TO BE RELOCATED
108	SENER	SCG	E1	UT-C4512-E1 UT-C4009-E1 UT-C4513-E1	307+45 to 317+28	E 10 th St/E Ave S	NATURAL GAS	4" PE	PSI	1628'		TO BE RELOCATED
109	SENER	SCG	E1	UT-C4511-E1 UT-C4009-E1	317+32	E Ave S	NATURAL GAS	4" PE	PSI	636'		TO BE RELOCATED
110	SENER	SPRINT	E1	UT-C4009-E1 UT-C4010-E1 UT-C4011-E1	299+57 to 363+57	Sierra Hwy/1565' north of E Ave S	FIBER OPTICS	4"		6388'		TO BE RELOCATED
111	SENER	PALMDALE WD	E1	UT-C4009-E1	318+30	Sierra Hwy / Ave S	WATER	20"	PSI	1900'		TO BE RELOCATED
112	SENER	PALMDALE WD	E1	UT-C4009-E1	301+52 to 315+34	Seirra Hwy/E Ave S	WATER	18" DIP	PSI	2242'		TO BE RELOCATED
113	SENER	PALMDALE WD	E1	UT-C4009-E1	317+75	Sierra Hwy / Ave S	WATER	18" (ABAN)	PSI	1900'		TO BE REMOVED
114	SENER	PALMDALE WD	E1	UT-C4009-E1	317+60	E Ave S/Sierra Hwy	WATER	42" SCCP	PSI	867'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
115	SENER	PALMDALE WD	E1	UT-C4009-E1	317+73	E Ave S/Sierra Hwy	WATER	12"	PSI	469'		TO BE RELOCATED
116	SENER	SCG	E1	UT-C4009-E1 UT-C4010-E1	317+28 to 320+85	Sierra Hwy/E Ave S	NATURAL GAS	4" PD	PSI	571'		TO BE REMOVED
117	SENER	CITY OF PALMDALE	E1	UT-C4009-E1 UT-C4513-E1	317+88	E Ave S	SEWER	8" VCP	CFS	330'		TO BE REMOVED
118	SENER	PALMDALE WD	E1	UT-C4512-E1 UT-C4009-E1	308+96 To 319+08	E 10 th St/E Ave S	WATER	24"	PSI	1285'		TO BE RELOCATED
119	SENER	PALMDALE WD	E1	UT-C4009-E1, UT-C4513-E1	317+35	E Ave S/E 10 th St	WATER	24" STL	PSI	1054'		TO BE RELOCATED
120	SENER	PALMDALE WD	E1	UT-C4009-E1 UT-C4010-E1 UT-C4011-E1	318+15 to 364+11	Sierra Hwy	WATER	24" STL.	PSI	4727'		TO BE RELOCATED
121	SENER	SCG	E1	UT-C4512-E1 UT-C4009-E1, UT-C4513-E1	307+19 To 317+28	E 10 th St/E Ave S	NATURAL GAS	10" H	PSI	1672'		TO BE RELOCATED
122	SENER	AT&T	E1	UT-C4512-E1 UT-C4009-E1	309+00 to 317+42	Sierra Hwy/E Ave S	TELECOM	18 DUCT		1022'		TO BE RELOCATED
123	SENER	LACSD	E1	UT-C4512-E1, UT-C4009-E1	306+11 to 317+00	E 10 th St	SEWER	10" VCP	CFS	1293'		TO BE RELOCATED
124	SENER	SCG	E1	UT-C4009-E1, UT-C4511-E1, UT-C4513-E1	317+67	E Ave S/Sierra Hwy	NATURAL GAS	30"	PSI	2401'		TO BE RELOCATED
125	SENER	SCG	E1	UT-C4009-E1 UT-C4511-E1 UT-C4513-E1	317+91	E Ave S/Sierra Hwy	NATURAL GAS	30"	PSI	2417'		TO BE RELOCATED
126	SENER	PALMDALE WD	E1	UT-C4009-E1	314+60 to 318+50	Sierra Hwy / Ave S	WATER	48"	PSI	490'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
127	SENER	PALMDALE WD	E1	UT-C4009-E1	314+60 to 318+50	Sierra Hwy / Ave S	WATER	30"	PSI	500'		TO BE RELOCATED
128	SENER	PALMDALE WD	E1	UT-C4009-E1	314+60 to 318+50	Sierra Hwy / Ave S	WATER	36"	PSI	500'		TO BE RELOCATED
129	SENER	PALMDALE WD	E1	UT-C4009-E1 UT-C4010-E1 UT-C4011-E1	319+25 to 364+00	Sierra Hwy	WATER	6" STL.	PSI	4612'		TO BE RELOCATED
130	SENER	SCE	E1	UT-C4009-E1	318+15	Sierra Hwy / Ave S / Tenth St	OH POWER	12 KV	KV	1870'		TO BE RELOCATED
131	SENER	PALMDALE WD	E1	UT-C4009-E1	295+00 to 296+72	Sierra Hwy / E. Avenue R11	WATER	8" (ABAN)	PSI	172'		PROTECT IN PLACE
132	SENER	AT&T	E1	UT-C4009-E1	310+00 to 317+00	Ave S / Tenth St	TELEPHONE	1 DUCT		1000'		TO BE RELOCATED
133	SENER	AT&T	E1	UT-C4009-E1 UT-C4010-E1	319+21 to 363+57	Sierra Hwy/E Ave S/E 10 th St	TELECOM	12 DUCT		5765'		TO BE RELOCATED
134	SENER	AT&T	E1	UT-C4009-E1	310+00 to 315+80	Sierra Hwy / Ave S / Tenth St	TELEPHONE	UNKNO WN		2350'		TO BE RELOCATED
135	SENER	SCE	E1	UT-C4010-E1 UT-C4011-E1	327+24 to 366+32	Sierra Hwy	OH POWER	12 kV	KV	4018'		TO BE RELOCATED
136	SENER	AT&T	E1	UT-C4011-E1	357+50	E Ave S/Sierra Hwy	TELEPHONE			638'		TO BE RELOCATED
137	SENER	PALMDALE WD	E1	UT-C4012-E1	374+33 to 389+45	Barrel Springs Rd Ditch	WATER	48" RCP	CFS	1499'		TO BE RELOCATED
138	SENER	PALMDALE WD	E1	UT-C4012-E1	376+81	Barrel Springs Rd	WATER	8" STL	PSI	422'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
139	SENER	PALMDALE WD	E1	UT-C4012-E2	377+36 to 379+15	Barrel Springs Rd/Metrolink Rail	WATER	8" STL	PSI	188'		TO BE RELOCATED
140	SENER	PALMDALE WD	E1	UT-C4012-E1	377+36 to 379+15	Barrel Springs Rd/Metrolink Rail	WATER	6" STL	PSI	175'		PROTECT IN PLACE
141	SENER	SCE	E1	UT-C4012-E1			OH POWER	12 kV	kV			PROTECT IN PLACE
142	SENER	SCE	E1	UT-C4012-E1	376+82	Barrel Springs Rd	OH POWER	12 kV	kV	389'		TO BE RELOCATED
143	SENER	PALMDALE WD	E1	UT-C4012-E1	370+00 to 395+00	Sierra Hwy / Harold Beach Ave	WATER	24"	PSI	3500'		PROTECT IN PLACE
144	SENER	U.S. SPRINT	E1	UT-C4012-E1	370+00 to 380+00	Sierra Hwy / Harold Beach Ave	FIBER OPTIC	4"		1060'		PROTECT IN PLACE
145	SENER	AT&T	E1	UT-C4012-E1	370+00 to 374+00	Sierra Hwy / Harold Beach Ave	TELEPHONE	UNKNO WN		400'		PROTECT IN PLACE
146	SENER	CA DWR	E1	UT-C4012-E1			AQUEDUCT	N/A				RELOCATE BY OTHERS
147	SENER	SCE	E1	UT-C4013-E1	397+20	Rae Street	OH POWER	UNKNO WN	kV	400'		TO BE RELOCATED
148	SENER	CA DWR	E1	UT-C4013-E1			AQUEDUCT	N/A				RELOCATE BY OTHERS
149	SENER	AVEK	E1	UT-C4016-E1 UT-C4017-E1	474+17 to 503+90	Sierra Hwy/Angel es Forest Hwy	WATER	20" DIP	PSI	2559'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
150	SENER	SCE	E1	UT-C4016- E1, UT-C4017-E1, UT-C4018-E1	483+26 to 535+84	Sierra Hwy/Angel es Forest Hwy	OH POWER	12 kV	kV	5651'		TO BE RELOCATED
151	SENER	UNKNOWN	E1	UT-C4016-E1, UT-C4017-E1	484+33 to 505+63	Sierra Hwy/Angel es Forest Hwy	FIBER OPTICS	UNKNO WN		2374'		TO BE RELOCATED
152	SENER	SCE	E1	UT-C4017-E1		Angeles Forest Hwy	OH POWER	500 KV	kV	2200'		PROTECT IN PLACE
153	SENER	SCE	E1	UT-C4017-E1	517+29, 518+54	Angeles Forest Hwy	OH POWER	500 KV	kV	2200'		PROTECT IN PLACE
154	SENER	LA COUNTY WD	E1	UT-C4018-E1	534+71	Mountain Springs Rd/Sierra Hwy /Carson Mesa Rd	WATER	12" STL	PSI	846'		TO BE RELOCATED
155	SENER	AVEK	E1	UT-C4018-E1	534+00	Sierra Hwy	WATER	20"	PSI	200'		TO BE RELOCATED
156	SENER	AUTHORITY	E1	UT-C4018-E1	533+00 to 545+00	Sierra Hwy	TP POWER	230 KV	kV	1210'		PROPOSED
157	SENER	SCE	E1	UT-C4019-E1	560+00 to 563+00	Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	230 KV	kV	6000'		PROTECT IN PLACE
158	SENER	SCE	E1	UT-C4019-E1		Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	230 KV	kV			PROTECT IN PLACE
159	SENER	SCE	E1	UT-C4019-E1		Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	230 KV	kV			PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
160	SENER	SCE	E1	UT-C4019-E1	564+00 to 567+00	Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	500 KV	kV	5000'		PROTECT IN PLACE
161	SENER	SCE	E1	UT-C4019-E1		Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	500 KV	kV			PROTECT IN PLACE
162	SENER	AUTHORITY	E1	UT-C4019-E1	545+00 to 570+00	Angeles Forest Hwy / W Carson Mesa Rd	TP POWER	230 KV	kV	2500'		PROPOSED
163	SENER	SCE	E1	UT-C4020-E1	570+00 to 588+00	Rockyford Rd / Harbea Carson Mesa Rd	OH POWER	230 KV	kV	4000'		PROTECT IN PLACE
164	SENER	SCE	E1	UT-C4020-E1		Rockyford Rd / Harbea Carson Mesa Rd	OH POWER	230 KV	kV			PROTECT IN PLACE
165	SENER	SCE	E1	UT-C4020-E1		Rockyford Rd / Harbea Carson Mesa Rd	OH POWER	230 KV	kV			PROTECT IN PLACE
166	SENER	SCE	E1	UT-C4020-E1	570+00 to 574+00	Rockyford Rd / Harbea Carson Mesa Rd	OH POWER	500 KV	kV	500'		PROTECT IN PLACE
167	SENER	AUTHORITY	E1	UT-C4020-E1	570+00 to 587+40	Rockyford Rd / Harbea Carson Mesa Rd	TP POWER	230 KV	kV	2770'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
168	SENER	AUTHORITY	E1	UT-C4021-E1	612+00 to 620+00		TP POWER	33 KV	kV	1250'		PROPOSED
169	SENER	SCE	E1	UT-C4021-E1	595+00 to 602+00		OH POWER	UNKNO WN	kV	800'		PROTECT IN PLACE
170	SENER	LACDPW	E1	UT-C4022-E1	630+80		WATER	8"	PSI	1240'		PROPOSED
171	SENER	AUTHORITY	E1	UT-C4022-E1	620+00 to 633+20		TP POWER	33 KV	kV	1322'		PROPOSED
172	SENER	LACDPW	E1	UT-C4026-E1	731+15 to 745+00	Aliso Canyon Rd	WATER	16"	PSI	2600'		PROPOSED
173	SENER	AUTHORITY	E1	UT-C4026-E1	730+90 to 745+00	Aliso Canyon Rd	TP POWER	33 KV	kV	1415'		PROPOSED
174	SENER	PALMDALE WD	E1	UT-C4511-E1	317+22	E Ave S/Sierra Hwy	WATER	20" STL	PSI	1628'		TO BE RELOCATED
175	SENER	PALMDALE WD	E1	UT-C4511-E1		Ave S / Fifth St	WATER	24"	PSI	175'		TO BE RELOCATED
176	SENER	AT&T	E1	UT-C4511-E1		Ave S / Fifth St	TELEPHONE	UNKNO WN		555'		TO BE RELOCATED
177	SENER	SCE	E1	UT-C4511-E1		Ave S / Fifth St	OH POWER	12 KV	kV	1075'		TO BE RELOCATED
178	SENER	PALMDALE WD	E1	UT-C4511-E1		Ave S / Fifth St	WATER	8"	PSI	400'		TO BE REMOVED
179	SENER	PALMDALE WD	E1	UT-C4512-E1		Tenth St / Ave R	WATER	12"	PSI	380'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
180	SENER	AT&T	E1	UT-C4512-E1		Tenth St / Ave R	TELEPHONE	UNKNO WN		160'		TO BE RELOCATED
181	SENER	AT&T	E1	UT-C4513-E1	318+00	E 10 TH St/E Ave S	TELECOM	6 DUCT		520'		TO BE RELOCATED
182	SENER	SCE	E1	UT-C4513-E1		Ave S / Monroe Place	OH POWER	12 KV	Kv	650'		TO BE RELOCATED
183	SENER	AT&T	E1	UT-C4513-E1		Ave S / Monroe Place	TELEPHONE	UNKNO WN		300'		TO BE RELOCATED
184	SENER	AT&T	E1	UT-C4513-E1		Ave S / Hamilton Place	TELEPHONE	1 DUCT		350'		TO BE RELOCATED
185	SENER	PALMDALE WD	E1	UT-C4515-E1		Sierra Hwy	WATER	20"	PSI	1300'		PROTECT IN PLACE
186	SENER	PALMDALE WD	E1	UT-C4515-E1		Sierra Hwy	WATER	24"	PSI	1300'		PROTECT IN PLACE
187	SENER	SCE	E1	UT-C4515-E1		Sierra Hwy	OH POWER	UNKNO WN	Kv	1800'		PROTECT IN PLACE
188	SENER	U.S. SPRINT	E1	UT-C4515-E1		Sierra Hwy	FIBER OPTIC	4"		1800'		PROTECT IN PLACE
189	SENER	AT&T	E1	UT-C4515-E1		Sierra Hwy	TELEPHONE	UNKNO WN		1800'		PROTECT IN PLACE
190	SENER	CA DWR	E1	UT-C4515-E1		Sierra Hwy	AQUEDUCT	N/A		1000'		RELOCATE BY OTHERS
191	SENER	SCE	E1	UT-C4516-E1		Sierra Hwy	OH POWER	12 KV	Kv	800'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
192	SENER	UNKNOWN	E1	UT-C4517-E1		Sierra Hwy / Mountain Springs Rd	FIBER OPTIC	UNKNO WN		300'		PROTECT IN PLACE
193	SENER	AVEK	E1	UT-C4517-E1		Sierra Hwy / Mountain Springs Rd	WATER	20"	PSI	150'		TO BE RELOCATED
194	SENER	LACDPW	E1	UT-C4517-E1		Sierra Hwy / Mountain Springs Rd	WATER	12"	PSI	110'		TO BE RELOCATED
195	SENER	SCE	E1	UT-C4518-E1		Foreston Dr / Angeles Forest Hwy	OH POWER	UNKNO WN	Kv	600'		PROTECT IN PLACE
196	SENER	SCE	E1	UT-C4518-E1		Foreston Dr / Angeles Forest Hwy	OH POWER	500 KV	Kv	1000'		PROTECT IN PLACE
197	SENER	SCE	E1	UT-C4518-E1		Foreston Dr / Angeles Forest Hwy	OH POWER	500 KV	Kv			PROTECT IN PLACE
198	SENER	SCE	E1	UT-C4518-E1		Foreston Dr / Angeles Forest Hwy	OH POWER	500 KV	Kv			PROTECT IN PLACE
199	SENER	AUTHORITY	E1	UT-C4518-E1		Foreston Dr / Angeles Forest Hwy	TP POWER	230 KV	Kv	52'		PROPOSED
200	SENER	SCE	E1	UT-C4519-E1			OH POWER	UNKNO WN	Kv	400'		PROTECT IN PLACE
201	SENER	AUTHORITY	E1	UT-C4519-E1			TP POWER	33 KV	Kv	410'		PROPOSED
202	SENER	LACDPW	E1	UT-C4521-E1		Tortuga St	WATER	2X16"	PSI	2260'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
203	SENER	LACDPW	E1	UT-C4522-E1		Kentucky Springs Rd	WATER	2X16"	PSI	2575'		PROPOSED
204	SENER	LACDPW	E1	UT-C4523-E1		Kentucky Springs Rd / Calle Del Roja	WATER	2X16"	PSI	1980'		PROPOSED
205	SENER	LACDPW	E1	UT-C4526-E1		Tortuga St / Joshua Ave	WATER	2X16"	PSI	1790'		PROPOSED
206	SENER	LACDPW	E1	UT-C4527-E1		Malinta Ave / Horndean Ave	WATER	2X16"	PSI	30'		PROPOSED
207	SENER	LACDPW	E1	UT-C4536-E1		W Ave Y 8	WATER	12"	PSI	1970'		PROTECT IN PLACE
208	SENER	LACDPW	E1	UT-C4537-E1		Aliso Canyon Rd / W Ave Y 8	WATER	2X16"	PSI	1450'		PROPOSED
209	SENER	LACDPW	E1	UT-C4537-E1		Aliso Canyon Rd / W Ave Y 8	WATER	12"	PSI	600'		PROTECT IN PLACE
210	SENER	SCE	E1	UT-C4031-E1	849+50, 851+60, 854+30	Edison Rd	OH POWER	230 KV	Kv	1400'		PROTECT IN PLACE
211	SENER	SCE	E1	UT-C4031-E1		Edison Rd	OH POWER	230 KV	Kv			PROTECT IN PLACE
212	SENER	SCE	E1	UT-C4031-E1		Edison Rd	OH POWER	230 KV	Kv			PROTECT IN PLACE
213	SENER	AUTHORITY	E1	UT-C4031-E1	868+40		WATER	2X16"	PSI	190'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
214	SENER	AUTHORITY	E1	UT-C4031-E1	857+10	Edison Rd	TP POWER	33 KV	Kv	1250'		PROPOSED
215	SENER	AUTHORITY	E1	UT-C4032-E1	870+00	Arrastre Canyon Rd	WATER	2X16"	PSI	1060'		PROPOSED
216	SENER	VERIZON	E1	UT-C4057-E1	1511+78	Little Tujunga Canyon Rd	TELECOM	UNKNO WN		2700'		PROTECT IN PLACE
217	SENER	AUTHORITY	E1	UT-C4057-E1	1515+60	Little Tujunga Canyon Rd	TP POWER	33 KV	Kv	2060'		PROPOSED
218	SENER	AUTHORITY	E1	UT-C4057-E1	1512+85	Little Tujunga Canyon Rd	WATER	8"	PSI	2745'		PROPOSED
219	SENER	CITT OF LA	E1	UT-C4063-E1	1656+25	Gavina Ave / Pacoima Cyn Rd	SEWER	8"	CFS	1625'		PROTECT IN PLACE
220	SENER	SCG	E1	UT-C4063-E1	1647+70, 1654+50, 1660+90, 1663+35	Gavina Ave / Via Santa Rosa / Pacoima Cyn Rd	GAS	4"	PSI	2500'		PROTECT IN PLACE
221	SENER	VERIZON	E1	UT-C4063-E1	1648+15, 1651+40, 1656+30, 1663+10, 1664+25	Gavina Ave / Via Santa Rosa / Pacoima Cyn Rd	TELECOM	UNKNO WN		2000'		PROTECT IN PLACE
222	SENER	CITY OF LA	E1	UT-C4064-E1	1670+00	Pacoima Cyn Rd	SEWER	8"	CFS	600'		PROTECT IN PLACE
223	SENER	SCG	E1	UT-C4064-E1		Alta Vista Way / Angeles Trail Way	GAS	4"	PSI	1800'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
224	SENER	VERIZON	E1	UT-C4064-E1		Alta Vista Way / Angeles Trail Way	TELECOM	UNKNO WN		1800'		PROTECT IN PLACE
225	SENER	SCE	E1	UT-C4067-E1	1753+60	I-210 / Paxton St	OH POWER	UNKNO WN	Kv	1900'		PROTECT IN PLACE
226	SENER	CITY OF LA	E1	UT-C4067-E1	1770+00	Foothill Blvd	SEWER	8"	CFS	850'		PROTECT IN PLACE
227	SENER	SCG	E1	UT-C4067-E1	1770+10	Foothill Blvd	GAS	4"	PSI	850'		PROTECT IN PLACE
228	SENER	LADWP	E1	UT-C4067-E1	1770+20	Foothill Blvd	WATER	12"	PSI	830'		PROTECT IN PLACE
229	SENER	VERIZON	E1	UT-C4067-E1	1751+21	I-210 / Paxton St	TELECOM	UNKNO WN		1600'		PROTECT IN PLACE
230	SENER	CITY OF LA	E1	UT-C4068-E1	1770+00, 1780+00, 1785+90, 1789+35, 1794+00	Foothill Blvd / Bromont Ave / Dronfield Ave	SEWER	8"	CFS	2400'		PROTECT IN PLACE
231	SENER	LADWP	E1	UT-C4068-E1	1786+10	Filmore St	WATER	14"	PSI	500'		PROTECT IN PLACE
232	SENER	LADWP	E1	UT-C4068-E1	1770+87	Foothill Blvd	WATER	30"	PSI	500'		PROTECT IN PLACE
233	SENER	SCG	E1	UT-C4068-E1	1770+40, 1785+75	Foothill Blvd / Filmore St	GAS	4"	PSI	1400'		PROTECT IN PLACE
234	SENER	LADWP	E1	UT-C4068-E1	1794+17	Dronfield Ave	WATER	6"	PSI	450'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
235	SENER	LADWP	E1	UT-C4068-E1	1789+59	Dronfield Ave	WATER	8"	PSI	500'		PROTECT IN PLACE
236	SENER	SCG	E1	UT-C4068-E1	1789+24, 1789+89, 1793+86	Dronfield Ave / Montford St	GAS	2"	PSI	1000'		PROTECT IN PLACE
237	SENER	LADWP	E1	UT-C4068-E1	1770+00	Foothill Blvd	OH POWER	UNKNO WN	Kv	900'		PROTECT IN PLACE
238	SENER	VERIZON	E1	UT-C4068-E1	1770+00	Foothill Blvd	TELECOM	UNKNO WN		900'		PROTECT IN PLACE
239	SENER	CITY OF LA	E1	UT-C4069-E1	1896+83, 1901+44, 1913+10, 1916+21,	Dronfield Ave / Mercet St / Van Nuys Blvd / Borden Ave	SEWER	8"	CFS	1600'		PROTECT IN PLACE
240	SENER	LADWP	E1	UT-C4069-E1	1901+60, 1902+00,	Dronfield Ave / Mercet St	WATER	6"	PSI	800'		PROTECT IN PLACE
241	SENER	LADWP	E1	UT-C4069-E1	1897+00, 1913+79, 1916+38	Dronfield Ave / Van Nuys Blvd	WATER	8"	PSI	1100'		PROTECT IN PLACE
242	SENER	SCG	E1	UT-C4069-E1	1896+67, 1897+31, 1901+23, 1916+31	Dronfield Ave / Judd St / Mercet St / Borden Ave	GAS	2"	PSI	1400'		PROTECT IN PLACE
243	SENER	CITY OF LA	E1	UT-C4070-E1	1922+74, 1924+00, 1936+90, 1937+70	Borden Ave / Glenoaks Blvd	SEWER	8"	CFS	1400'		PROTECT IN PLACE
244	SENER	CITY OF LA	E1	UT-C4070-E1	1932+15	Pierce St	SEWER	18"	CFS	400'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
245	SENER	LADWP	E1	UT-C4070-E1	1932+27, 1932+31	Pierce St	WATER	12"	PSI	800'		PROTECT IN PLACE
246	SENER	SCG	E1	UT-C4070-E1	1922+50, 1922+92, 1940+62, 1942+25, 1944+05, 1944+36	Borden Ave / Gain St / Glenoaks Blvd	GAS	2"	PSI	1600'		PROTECT IN PLACE
247	SENER	SCG	E1	UT-C4070-E1	1932+00, 1936+70	Pierce St / Glenoaks Blvd	GAS	4"	PSI	800'		PROTECT IN PLACE
248	SENER	SCG	E1	UT-C4070-E1	1937+15	Glenoaks Blvd	GAS	6"	PSI	450'		PROTECT IN PLACE
249	SENER	SCG	E1	UT-C4070-E1	1937+65, 1937+91	Glenoaks Blvd	GAS	16"	PSI	900'		PROTECT IN PLACE
250	SENER	LADWP	E1	UT-C4070-E1	1937+74	Glenoaks Blvd	WATER	8"	PSI	450'		PROTECT IN PLACE
251	SENER	CITY OF LA	E1	UT-C4071-E1	1951+00, 1954+37, 1959+06, 1962+05	Terra Bella St / Garber St / Bernadette St / Empire Dr	SEWER	8"	CFS	1600'		PROTECT IN PLACE
252	SENER	SCG	E1	UT-C4071-E1	1958+95	Bernadette St	GAS	1"	PSI	400'		PROTECT IN PLACE
253	SENER	SCG	E1	UT-C4071-E1	1946+60, 1947+83, 1950+79, 1954+24	Terra Bella St / Garber St	GAS	2"	PSI	1600'		PROTECT IN PLACE
254	SENER	SCG	E1	UT-C4072-E1	1981+95, 1993+75	Osborne St / Bradley Ave	GAS	3"	PSI	700'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
255	SENER	SCG	E1	UT-C4072-E1	1982+27	Osborne St	GAS		PSI	400'		PROTECT IN PLACE
256	SENER	SCG	E1	UT-C4072-E1	1993+75	Bradley Ave	GAS	2"	PSI	300'		PROTECT IN PLACE
257	SENER	CITY OF LA	E1	UT-C4072-E1	1993+35, 1993+87	Bradley Ave	SEWER	8"	CFS	600'		PROTECT IN PLACE
258	SENER	LADWP	E1	UT-C4072-E1	1982+66	Osborne St	OH POWER			600'		PROTECT IN PLACE
259	SENER	CITY OF LA	E1	UT-C4073-E1	1998+18	Ralston Ave	SEWER	8"	CFS	1800'		PROTECT IN PLACE
260	SENER	LADWP	E1	UT-C4073-E1	1998+00	Ralston Ave	WATER	6"	PSI	1170'		PROTECT IN PLACE
261	SENER	LADWP	E1	UT-C4073-E1	2013+29	Branford St / San Fernando Rd	OH POWER		Kv	1340'		TO BE RELOCATED
262	SENER	LADWP	E1	UT-C4074-E1	2044+14, 2044+44	Truesdale St / San Fernando Rd	OH POWER	230 KV	Kv	1234'		TO BE RELOCATED
263	SENER	AT&T-SPRINT	E1	UT-C4074-E1	2020+00 to 2045+00	Truesdale St / San Fernando Rd	TEL	4-2"		2600'		PROTECT IN PLACE
264	SENER	PPS	E1	UT-C4074-E1	2020+00 to 2045+00	Truesdale St / San Fernando Rd	OIL	20"	PSI	2500'		PROTECT IN PLACE
265	SENER	QWEST	E1	UT-C4074-E1	2020+00 to 2045+00	Truesdale St / San Fernando Rd	FIBER	2X2"		2500'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
266	SENER	CITY OF LA	E1	UT-C4074-E1	2020+00 to 2045+00	Truesdale St / San Fernando Rd	OIL	8"	PSI	2500'		PROTECT IN PLACE
267	SENER	LADWP	E1	UT-C4074-E1	2034+15	San Fernando Rd	WATER		PSI	800'		PROTECT IN PLACE
268	SENER	SCG	E1	UT-C4074-E1	2039+00	Truesdale St / San Fernando Rd	GAS	12" (ABAN)	PSI	604'		PROTECT IN PLACE
269	SENER	AT&T	E1	UT-C4074-E1	2020+00 to 2029+62	San Fernando Rd	TEL			1050'		PROTECT IN PLACE
270	SENER	LADWP	E1	UT-C4074-E1	2035+75 to 2045+00	San Fernando Rd	OH POWER		Kv	2400'		PROTECT IN PLACE
271	SENER	SCG	E1	UT-C4074-E1	2040+00 to 2045+00	San Fernando Rd / Truesdale St	GAS		PSI	600'		PROTECT IN PLACE
272	SENER	LADWP	E1	UT-C4074-E1	2035+85, 2042+75, 2044+00	San Fernando Rd / Truesdale St	OH POWER		Kv	1000'		TO BE RELOCATED
273	SENER	CITY OF LA	E1	UT-C4075-E1	2054+00	San Fernando Rd / Sheldon St	SEWER	15"	CFS	300'		TO BE REMOVED
274	SENER	SCG	E1	UT-C4075-E1	2056+70 to 2070+00	San Fernando Rd / Sheldon St	GAS	3"	PSI	1320'		TO BE RELOCATED
275	SENER	LADWP	E1	UT-C4075-E1	2057+35 to 2070+00	San Fernando Rd / Sheldon St	WATER	8"	PSI	1250'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
276	SENER	CITY OF LA	E1	UT-C4075-E1	2064+17 to 2070+00	San Fernando Rd / Sheldon St	SEWER	8"	CFS	560'		TO BE RELOCATED
277	SENER	AT&T-SPRINT	E1	UT-C4075-E1	2045+20 to 2070+00	San Fernando Rd / Sheldon St	TEL	4-2"		2700'		TO BE RELOCATED
278	SENER	PPS	E1	UT-C4075-E1	2045+20 to 2070+00	San Fernando Rd / Sheldon St	OIL	20"	PSI	2650'		TO BE RELOCATED
279	SENER	QWEST	E1	UT-C4075-E1	2045+20 to 2070+00	San Fernando Rd / Sheldon St	FIBER	2X2"		2700'		TO BE RELOCATED
280	SENER	CITY OF LA	E1	UT-C4075-E1	2045+20 to 2070+00	San Fernando Rd / Sheldon St	OIL	8"	PSI	2495'		TO BE RELOCATED
281	SENER	SCG	E1	UT-C4075-E1	2044+50 to 2070+00	San Fernando Rd / Sheldon St	GAS	12" (ABAN)	PSI	2540'		PROTECT IN PLACE
282	SENER	AT&T	E1	UT-C4075-E1	2056+80 to 2070+00	San Fernando Rd / Sheldon St	TEL			1320'		PROTECT IN PLACE
283	SENER	CITY OF LA	E1	UT-C4075-E1	2045+00 to 2063+00	San Fernando Rd / Sheldon St	SEWER	8"	CFS	1810'		PROTECT IN PLACE
284	SENER	CITY OF LA	E1	UT-C4075-E1	2056+83 to 2058+75	San Fernando Rd / Sheldon St	SEWER	8"		140'		TO BE REMOVED
285	SENER	SCG	E1	UT-C4075-E1	2045+00 to 2064+00	San Fernando Rd / Sheldon St	GAS	4"	PSI	1950'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
286	SENER	LADWP	E1	UT-C4075-E1	2044+50 to 2070+00	San Fernando Rd / Sheldon St	WATER	24"	PSI	2700'		PROTECT IN PLACE
287	SENER	SCG	E1	UT-C4075-E1	2056+70	San Fernando Rd / Sheldon St	GAS	3"	PSI	760'		PROTECT IN PLACE
288	SENER	CITY OF LA	E1	UT-C4075-E1	2059+00 to 2064+20	San Fernando Rd / Sheldon St	SEWER	15"	CFS	550'		PROTECT IN PLACE
289	SENER	LADWP	E1	UT-C4075-E1	2057+35	Sheldon St / San Fernando Rd	WATER	6"	PSI	745'		PROTECT IN PLACE
290	SENER	CITY OF LA	E1	UT-C4075-E1	2057+00 to 2059+00	San Fernando Rd / Sheldon St	SEWER	15"	CFS	215'		PROTECT IN PLACE
291	SENER	LADWP	E1	UT-C4075-E1	2045+00 to 2060+57	San Fernando Rd / Sheldon St	OH POWER		Kv	1832'		PROTECT IN PLACE
292	SENER	CITY OF LA	E1	UT-C4075-E1	2056+81	San Fernando Rd / Sheldon St	SEWER	18"	CFS	500'		TO BE RELOCATED
293	SENER	LADWP	E1	UT-C4075-E1	2054+10	San Fernando Rd / Sheldon St	OH POWER		Kv	600'		TO BE RELOCATED
294	SENER	LADWP	E1	UT-C4075-E1	2057+28	San Fernando Rd / Sheldon St	WATER	8"	PSI	550'		PROTECT IN PLACE
295	SENER	VERIZON	E1	UT-C4075-E1	2056+30 to 2064+10	San Fernando Rd / Sheldon St	TEL			780'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
296	SENER	QWEST	E1	UT-C4075-E1	2045+00 to 2070+00	San Fernando Rd / Sheldon St	FIBER	2X2"		2660'		PROTECT IN PLACE
297	SENER	SCG	E1	UT-C4076-E1	2069+80 to 2095+00	San Fernando Rd / Wicks St	GAS	12" (ABAN)	PSI	2540'		TO BE REMOVED
298	SENER	AT&T	E1	UT-C4076-E1	2069+80 to 2095+00	San Fernando Rd / Wicks St	TEL			2540'		PROTECT IN PLACE
299	SENER	LADWP	E1	UT-C4076-E1	2088+50 to 2095+00	San Fernando Rd / Wicks St	WATER	20"	PSI	660'		PROTECT IN PLACE
300	SENER	SCG	E1	UT-C4076-E1	2089+10 to 2095+00	San Fernando Rd / Wicks St	GAS	4"	PSI	510'		PROTECT IN PLACE
301	SENER	CITY OF LA	E1	UT-C4076-E1	2088+50 to 2095+00	San Fernando Rd / Wicks St	SEWER	8"	CFS	660'		PROTECT IN PLACE
302	SENER	VERIZON	E1	UT-C4076-E1	2069+80 to 2095+00	San Fernando Rd / Wicks St	TEL			2540'		PROTECT IN PLACE
303	SENER	CITY OF LA	E1	UT-C4076-E1	2084+22	San Fernando Rd / Wicks St	SEWER	12"	CFS	60'		TO BE REMOVED
304	SENER	WILLIAMS	E1	UT-C4076-E1	2069+80 to 2095+00	San Fernando Rd / Wicks St	TELECOM	12"		2540'		PROTECT IN PLACE
305	SENER	LADWP	E1	UT-C4077-E1	2115+05 to 2120+00	San Fernando Rd / Tuxford St	WATER	12"	PSI	495'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
306	SENER	SCG	E1	UT-C4077-E1	2094+90 to 2020+00	San Fernando Rd / Tuxford St	GAS	12" (ABAN)	PSI	2510'		TO BE REMOVED
307	SENER	AT&T	E1	UT-C4077-E1	2094+90 to 2113+50	San Fernando Rd / Tuxford St	TEL			1875'		PROTECT IN PLACE
308	SENER	SCG	E1	UT-C4077-E1	2094+90 to 2110+00	San Fernando Rd / Tuxford St	GAS	4"		1510'		PROTECT IN PLACE
309	SENER	CITY OF LA	E1	UT-C4077-E1	2115+00	San Fernando Rd / Tuxford St	SEWER	10" (ABAN)	CFS	1500'		TO BE REMOVED
310	SENER	CITY OF LA	E1	UT-C4077-E1	2094+90 to 2113+80	San Fernando Rd / Tuxford St	SEWER	8"	CFS	1870'		PROTECT IN PLACE
311	SENER	COLA	E1	UT-C4077- E1	2005+69	Between Montague St and Branford St	SEWER	8" VCP	CFS	748'		PROTECT IN PLACE
312	SENER	LADWP-PS	E1	UT-C4077- E1	2013+08	Branford St	OH POWER	UNK	kV	1419'		PROTECT IN PLACE
313	SENER	CITY OF LA	E1	UT-C4077- E1	2015+0	Branford St	SEWER	12"	PSI	2360'		PROTECT IN PLACE
314	SENER	CITY OF LA	E1	UT-C4077- E1	2015+0	Branford St	SEWER	18"	PSI	80'		TO BE REMOVED
315	SENER	LADWP	E1	UT-C4078-E1	2134+35, 2138+00	San Fernando Blvd / Dora St / Vinedale St	WATER	8"	PSI	600'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
316	SENER	AT&T	E1	UT-C4078-E1	2120+00 to 2145+00	Penrose St / San Fernando Blvd	TEL			2540'		PROTECT IN PLACE
317	SENER	SCG	E1	UT-C4078-E1	2120+00 to 2145+00	Penrose St / Vinedale St / San Fernando Blvd	GAS	12" (ABAN)	PSI	2875'		TO BE REMOVED
318	SENER	SCG	E1	UT-C4078-E1	2120+00 to 2141+30	Penrose St / San Fernando Blvd	GAS	4"	PSI	2130'		PROTECT IN PLACE
319	SENER	LADWP	E1	UT-C4078-E1			WATER	20"	PSI	900'		PROTECT IN PLACE
320	SENER	LADWP	E1	UT-C4078-E1	2120+00 to 2129+00	Penrose St / San Fernando Blvd	WATER	8"	PSI	900'		PROTECT IN PLACE
321	SENER	WILLIAMS	E1	UT-C4078-E1	2120+00 to 2145+00	Penrose St / San Fernando Blvd	TELECOM	12"		2500'		PROTECT IN PLACE
322	SENER	SCG	E1	UT-C4079- E1	2145+00 to 2157+45	San Fernando Blvd / Sunland Blvd	GAS	4"	PSI	1245'		PROTECT IN PLACE
323	SENER	LADWP	E1	UT-C4079- E1	2145+00 to 2163+00	San Fernando Blvd / Sunland Blvd	WATER	8"	PSI	1800'		PROTECT IN PLACE
324	SENER	CITY OF LA	E1	UT-C4079-E1	2145+00 to 2161+95	San Fernando Blvd / Sunland Blvd	SEWER	13"	CFS	1900'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
325	SENER	LADWP-PS	E1	UT-C4079- E1	2145+00 to 2161+20	San Fernando Blvd / Sunland Blvd	OH POWER	UNKNO WN	kV	1800'		PROTECT IN PLACE
326	SENER	LADWP	E1	UT-C4079-E1	2161+75 to 2170+00	San Fernando Blvd / Sunland Blvd	WATER	48"	PSI	825'		PROTECT IN PLACE
327	SENER	SCG	E1	UT-C4079- E1	2145+00 to 2170+00	San Fernando Blvd / Sunland Blvd	GAS	12" (ABAN)	PSI	2500'		TO BE REMOVED
328	SENER	AT&T	E1	UT-C4079- E1,	2145+00 to 2170+00	San Fernando Blvd / Sunland Blvd	TEL	UNKNO WN		2500'		PROTECT IN PLACE
329	SENER	LADWP	E1	UT-C4079- E1	2160+00 to 2170+00	San Fernando Blvd / Sunland Blvd	WATER	27"	PSI	1100'		PROTECT IN PLACE
330	SENER	LADWP	E1	UT-C4079- E1	2145+00 to 2160+00	San Fernando Blvd / Sunland Blvd	WATER	20"	PSI	1600'		PROTECT IN PLACE
331	SENER	CITY OF LA	E1	UT-C4079-E1	2161+95	San Fernando Blvd / Sunland Blvd	SEWER	24"	CFS	400'		PROTECT IN PLACE
332	SENER	SCG	E1	UT-C4079- E1	2161+50	San Fernando Blvd / Sunland Blvd	GAS	3"	PSI	300'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
333	SENER	WILLIAMS	E1	UT-C4079- E1,	2145+00 to 2170+00	San Fernando Blvd / Sunland Blvd	TELECOM	12"		2500'		PROTECT IN PLACE
334	SENER	LADWP-WS	E1	UT-C4080-E1	2170+00 to 2195+00	San Fernando Rd	WATER	48"	PSI	2500'		PROTECT IN PLACE
335	SENER	SCG	E1	UT-C4080-E1	2179+15 to 2190+72	San Fernando Rd / Wheatland Ave	GAS	2"	PSI	1400'		PROTECT IN PLACE
336	SENER	CITY OF LA	E1	UT-C4080-E1	2170+00 to 2195+00	San Fernando Rd / Wheatland Ave	OIL	8"	PSI	2500'		PROTECT IN PLACE
337	SENER	SCG	E1	UT-C4080-E1	2170+00 to 2195+00	San Fernando Rd / Wheatland Ave	GAS	12" (ABAN)	PSI	2500'		TO BE REMOVED
338	SENER	AT&T- SPRINT	E1	UT-C4080-E1	2170+00 to 2195+00	San Fernando Rd / Wheatland Ave	TEL	UNKNO WN		2500'		PROTECT IN PLACE
339	SENER	LADWP	E1	UT-C4080-E1	2170+00 to 2195+00	San Fernando Rd / Wheatland Ave	WATER	22"	PSI	2600'		PROTECT IN PLACE
340	SENER	SCG	E1	UT-C4080-E1	2179+20	San Fernando Blvd / Clybourn Ave	GAS	6"	PSI	400'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
341	SENER	LADWP-WS	E1	UT-C4080-E1	2189+00	San Fernando Rd / Wheatland Ave	WATER	12" DIP	PSI	700'		PROTECT IN PLACE
342	SENER	CITY OF LA	E1	UT-C4080-E1	2171+00 to 2180+00	San Fernando Rd / Clybourn Ave	SEWER	8" VCP	CFS	1000'		PROTECT IN PLACE
343	SENER	CITY OF LA	E1	UT-C4080-E1	2192+66	Wheatland Ave	SEWER	21"	CFS	800'		PROTECT IN PLACE
344	SENER	LADWP-PS	E1	UT-C4080-E1	2170+00 to 2185+90	San Fernando Blvd / Clybourn Ave	OH POWER		kV	1600'		PROTECT IN PLACE
345	SENER	SCG	E1	UT-C4080-E1	2170+00 to 2195+00	San Fernando Rd / Wheatland Ave	GAS	4"	PSI	2500'		PROTECT IN PLACE
346	SENER	WILLIAMS	E1	UT-C4080-E1	2170+00 to 2195+00	San Fernando Rd / Wheatland Ave	TELECOM	12"		2500'		PROTECT IN PLACE
347	SENER	SCG	E1	UT-C4081-E1	2205+00 to 2215+00	San Fernando Blvd	NATURAL GAS	3"	PSI	1000'		PROTECT IN PLACE
348	SENER	LADWP	E1	UT-C4081-E1	2195+00 to 2210+00	San Fernando Blvd	WATER	8"	PSI	1500'		PROTECT IN PLACE
349	SENER	CITY OF LA	E1	UT-C4081-E1	2205+00 to 2215+00	San Fernando Blvd	SEWER	8"	CFS	1000'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
350	SENER	SCG	E1	UT-C4081-E1	2195+00 to 2207+00	San Fernando Rd	NATURAL GAS	4"	PSI	1200'		PROTECT IN PLACE
351	SENER	LADWP	E1	UT-C4081-E1	2195+00 to 2215+00	San Fernando Blvd	WATER	48"	PSI	2000'		PROTECT IN PLACE
352	SENER	AT&T-SPRINT	E1	UT-C4081-E1	2195+00 to 2215+00	San Fernando Blvd	TEL	4-2"		2000'		PROTECT IN PLACE
353	SENER	PPS	E1	UT-C4081-E1	2195+00 to 2215+00	San Fernando Blvd	OIL	20"	PSI	2000'		TO BE RELOCATED
354	SENER	QWEST	E1	UT-C4081-E1	2195+00 to 2215+00	San Fernando Blvd	FIBER	2X2"		2000'		TO BE RELOCATED
355	SENER	CITY OF LA	E1	UT-C4081-E1	2195+00 to 2215+00	San Fernando Rd	OIL	8"	PSI	2000'		PROTECT IN PLACE
356	SENER	WILLIAMS	E1	UT-C4081-E1	2195+00 to 2215+00	San Fernando Blvd	TELECOM	12"		2000'		PROTECT IN PLACE
357	SENER	SCG	E1	UT-C4081-E1			GAS	12"(ABAN)	PSI	400'		REMOVE
358	SENER	WILLIAMS	E1	UT-C4081-E1	2211+00	Arvila Ave	TELECOM	UNKNO WN		200'		PROTECT IN PLACE
359	SENER	LADWP	E1	UT-C4081-E1	2211+00	Arvila Ave	WATER	6"	PSI	200'		PROTECT IN PLACE
360	SENER	LADWP-PS	E1	UT-C4081-E1	2209+10	San Fernando Blvd / Arvila Ave	OH POWER	UNKNO WN	KV	600'		PROTECT IN PLACE
361	SENER	SCG	E1	UT-C4081-E1	2205+50	Ledge Ave	GAS	2"	PSI	400'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
362	SENER	LADWP-WS	E1	UT-C4081-E1	2213+00	San Fernando Blvd	WATER	12"	PSI	500'		PROTECT IN PLACE
363	SENER	LADWP	E1	UT-C4081-E1	2204+20 to 2210+00	San Fernando Blvd	POWER			600'		PROTECT IN PLACE
364	SENER	LADWP	E1	UT-C4081-E1	2195+00 to 2215+00	San Fernando Blvd	WATER	20"	PSI	2000'		PROTECT IN PLACE
365	SENER	AT&T	E1	UT-C4081-E1	2195+00 to 2215+00	San Fernando Blvd	TEL	UNKNO WN		2000'		PROTECT IN PLACE
366	SENER	SCG	E1	UT-C4082-E1	2215+00 to 2221+00	San Fernando Blvd	GAS	3"	PSI	600'		PROTECT IN PLACE
367	SENER	LACDPW	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	SEWER	8"	CFS	1600'		PROTECT IN PLACE
368	SENER	LADWP-PS	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	OH POWER	UNKNO WN	kV	1600'		PROTECT IN PLACE
369	SENER	LADWP	E1	UT-C4082-E1	2225+00	Lockheed Dr / San Fernando Rd	WATER	UNKNO WN	PSI	250'		TO BE RELOCATED
370	SENER	LADWP	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	WATER	8"	PSI	1600'		PROTECT IN PLACE
371	SENER	LADWP	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	WATER	48"	PSI	1600'		PROTECT IN PLACE
372	SENER	WILLIAMS	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	TELECOM	12"		1600'		PROTECT IN PLACE
373	SENER	AT&T-SPRINT	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	TEL	4-2"		1600'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
374	SENER	PPS	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	OIL	20"	PSI	1600'		PROTECT IN PLACE
375	SENER	QWEST	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	FIBER OPTIC	UNKNO WN		1600'		PROTECT IN PLACE
376	SENER	CITY OF LA	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	OIL	8"	PSI	1600'		PROTECT IN PLACE
377	SENER	SCG	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	NATURAL GAS	4"	PSI	1600'		PROTECT IN PLACE
378	SENER	SCG	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	GAS	12" (ABAN)	PSI	1600'		TO BE REMOVED
379	SENER	AT&T-SPRINT	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	TELEPHONE	UNKNO WN		1600'		PROTECT IN PLACE
380	SENER	LADWP	E1	UT-C4082-E1	2215+00 to 2230+00	San Fernando Blvd	WATER	16"	PSI	1600'		PROTECT IN PLACE
381	SENER	LADWP-PS	E1	UT-C4082-E1	2228+00	Lockheed Dr / San Fernando Rd	OH POWER	UNKNO WN	kV	300'		TO BE RELOCATED
382	SENER	CITY OF LA	E1	UT-C4082-E1	2225+00	Lockheed Dr / San Fernando Rd	SEWER	8"	CFS	250'		TO BE RELOCATED
383	SENER	LACDPW	E1	UT-C4083-E1	2230+00	Cohasset St	SEWER	8"	CFS	300'		REP. IN KIND/HDPE
384	SENER	CITY OF BURBANK	E1	UT-C4083-E1	2230+00	Cohasset St	WATER	12"	PSI	212'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
385	SENER	CITY OF BURBANK	E1	UT-C4083-E1		Cohasset St	OH POWER	UNKNO WN	PSI	200'		TO BE RELOCATED
386	SENER	SCG	E1	UT-C4083-E1		Cohasset St	GAS	2"	PSI	50'		TO BE RELOCATED
387	SENER	LACDPW	E1	UT-C4542-E1		Crown Valley Road/Country Way	WATER	12"	PSI	5500'		PROTECT IN PLACE
388	SENER	SCG	E1	UT-C4542-E1		Crown Valley Rd	GAS	4"	PSI	4500'		PROTECT IN PLACE
389	SENER	SCE	E1	UT-C4543-E1		CROWN VALLEY RD	OH POWER	UNKNO WN	PSI	160'		PROTECT IN PLACE
390	SENER	AUTHORITY	E1	UT-C4543-E1		Crown Valley Rd	WATER	2X16"	PSI	2800'		PROPOSED
391	SENER	SCG	E1	UT-C4543-E1		Crown Valley Rd	GAS	4"	PSI	2000'		PROTECT IN PLACE
392	SENER	SCE	E1	UT-C4544-E1		Arrastre Canyon Rd	OH POWER	UNKNO WN	PSI	6250'		PROTECT IN PLACE
393	SENER	AUTHORITY	E1	UT-C4544-E1		Arrastre Canyon Rd	WATER	2X16"	PSI	2350'		PROPOSED
394	SENER	SCG	E1	UT-C4544-E1		Arrastre Canyon Rd	GAS	4"	PSI	1850'		PROTECT IN PLACE
395	SENER	SCE	E1	UT-C4545-E1		Arrastre Canyon Rd	OH POWER	UNKNO WN	PSI	1800'		PROTECT IN PLACE
396	SENER	AUTHORITY	E1	UT-C4545-E1		Arrastre Canyon Rd	WATER	2X16"	PSI	1850'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
397	SENER	AUTHORITY	E1	UT-C4546-E1		Arrastre Canyon Rd	WATER	2X16"	PSI	1900'		PROPOSED
398	SENER	SCG	E1	UT-C4547-E1		Arrastre Canyon Rd	OH POWER	230 KV	KV	2800'		PROTECT IN PLACE
399	SENER	SCE	E1	UT-C4547-E1		Arrastre Canyon Rd	OH POWER	230 KV	KV	2900'		PROTECT IN PLACE
400	SENER	SCE	E1	UT-C4547-E1		Arrastre Canyon Rd	OH POWER	230 KV	KV	2750'		PROTECT IN PLACE
401	SENER	AUTHORITY	E1	UT-C4547-E1		Arrastre Canyon Rd	WATER	2X16"	PSI	2000'		PROPOSED
402	SENER	AUTHORITY	E1	UT-C4548-E1		Little Tujunga Rd/Sand Canyon Rd	WATER	8"	PSI	2350'		PROPOSED
403	SENER	UNKNOWN	E1	UT-C4548-E1		Little Tujunga Rd/Sand Canyon Rd	WATER	8"	PSI	790'		PROTECT IN PLACE
404	SENER	AUTHORITY	E1	UT-C4549-E1		Little Tujunga Rd/Sand Canyon Rd	WATER	8"	PSI	2180'		PROPOSED
405	SENER	AUTHORITY	E1	UT-C4550-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	2000'		PROPOSED
406	SENER	AUTHORITY	E1	UT-C4551-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	2051'		PROPOSED
407	SENER	AUTHORITY	E1	UT-C4552-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	2000'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
408	SENER	AUTHORITY	E1	UT-C4553-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	3500'		PROPOSED
409	SENER	AUTHORITY	E1	UT-C4554-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	2500'		PROPOSED
410	SENER	AUTHORITY	E1	UT-C4555-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	2273'		PROPOSED
411	SENER	VERIZON	E1	UT-C4556-E1		Little Tujunga Canyon Rd	TELECOM	UNKNO WN	PSI	850'		PROTECT IN PLACE
412	SENER	AUTHORITY	E1	UT-C4556-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	3200'		PROPOSED
413	SENER	VERIZON	E1	UT-C4557-E1		Little Tujunga Canyon Rd	TELECOM	UNKNO WN		2187'		PROTECT IN PLACE
414	SENER	AUTHORITY	E1	UT-C4557-E1		Little Tujunga Canyon Rd	TP POWER	33 KV	KV	1044'		PROPOSED
415	SENER	AUTHORITY	E1	UT-C4557-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	1850'		PROPOSED
416	SENER	VERIZON	E1	UT-C4558-E1		Little Tujunga Canyon Rd	TELECOM	UNKNO WN		2180'		PROTECT IN PLACE
417	SENER	AUTHORITY	E1	UT-C4558-E1		Little Tujunga Canyon Rd	TP POWER	33 KV	KV	2240'		PROPOSED
418	SENER	AUTHORITY	E1	UT-C4558-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	3000'		PROPOSED
419	SENER	VERIZON	E1	UT-C4559-E1		Little Tujunga Canyon Rd	TELECOM	UNKNO WN		1900'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
420	SENER	AUTHORITY	E1	UT-C4559-E1		Little Tujunga Canyon Rd	TP POWER	33 KV	KV	1930'		PROPOSED
421	SENER	AUTHORITY	E1	UT-C4559-E1		Little Tujunga Canyon Rd	WATER	8"	PSI	1700'		PROPOSED
422	SENER	VERIZON	E1	UT-C4560-E1		Little Tujunga Canyon Rd	TELECOM	UNKNO WN	KV	2005'		PROTECT IN PLACE
423	SENER	AUTHORITY	E1	UT-C4560-E1		Little Tujunga Canyon Rd	TP POWER	33 KV	KV	2150'		PROPOSED
424	SENER	VERIZON	E1	UT-C4561-E1		Little Tujunga Canyon Rd	TELECOM	UNKNO WN	PSI	1700'		PROTECT IN PLACE
425	SENER	AUTHORITY	E1	UT-C4561-E1		Little Tujunga Canyon Rd	TP POWER	33 KV	KV	1950'		PROPOSED
426	SENER	VERIZON	E1	UT-C4562-E1		Little Tujunga Canyon Rd	TELECOM	UNKNO WN		1500'		PROTECT IN PLACE
427	SENER	AUTHORITY	E1	UT-C4562-E1		Little Tujunga Canyon Rd	TP POWER	33 KV	KV	1800'		PROPOSED
428	SENER	LADWP	E1	UT-C4562-E1		Little Tujunga Canyon Rd	OH POWER	500 KV	KV	1780'		PROTECT IN PLACE
429	SENER	VERIZON	E1	UT-C4563-E1		Little Tujunga Canyon Rd	TELECOM	UNKNO WN		600'		PROTECT IN PLACE
430	SENER	AUTHORITY	E1	UT-C4563-E1		Little Tujunga Canyon Rd	TP POWER	33 KV	KV	340'		PROPOSED
431	SENER	LADWP	E1	UT-C4563-E1		Little Tujunga Canyon Rd	OH POWER	500 KV	KV	2500'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
432	SENER	SCG	E1	UT-C4585-E1		Tuxford St	GAS	4"	PSI	890'		PROTECT IN PLACE
433	SENER	LADWP	E1	UT-C4585-E1		Tuxford St	OH POWER	UNKNO WN	KV	565'		PROTECT IN PLACE
434	SENER	LADWP	E1	UT-C4585-E1		Tuxford St	POWER	UNKNOI WN	KV	585'		PROTECT IN PLACE
435	SENER	LADWP	E1	UT-C4586-E1		Tuxford St	WATER	6"	PSI	350'		PROTECT IN PLACE
436	SENER	CITY OF LA	E1	UT-C4586-E1		Tuxford St	SEWER	12"	CFS	1200'		PROTECT IN PLACE
437	SENER	SCG	E1	UT-C4586-E1		Tuxford St	GAS	12"	PSI	282'		PROTECT IN PLACE
438	SENER	SCG	E1	UT-C4586-E1		Tuxford St	GAS	8"	PSI	281'		PROTECT IN PLACE
439	SENER	LADWP	E1	UT-C4586-E1		Tuxford St	OH POWER	UNKNO WN	PSI	526'		PROTECT IN PLACE
440	SENER	SO CAL GAS	E1	UT-C4001-PLM	102+50	Sierra Hwy/E Ave O	NATURAL GAS	10" H SL	PSI	715'		TO BE RELOCATED
441	SENER	SO CAL GAS	E1	UT-C4002-PLM, UT-C4003-PLM,	122+50 to 156+35	Sierra Hwy/Lockheed Way	NATURAL GAS	4" PA	PSI	4583'		TO BE REMOVED
442	SENER	SO CAL GAS	E1	UT-C4002-PLM	129+16	Lockheed Way	NATURAL GAS	3" PA	PSI	484'		TO BE REMOVED

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Appendix C: Utility Owner Contact Log

E1 Alignment – Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
1	SENER	Level 3 Communications (Telephone)	2015-12-17 To 2016- 08-25	918-547-0007 (213) 929-2126 felix.vigil@level3.com (949) 672-0403 gerardo.issasi@level3.com (949) 275-1419	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-17: Email sent to Gerry Issasi with attached letter and maps 2015-12-30: Updated correction to telephone no. 2016-01-14: Confirmed with Gerry that Felix is the point of contact for LA; Called Felix; no response; sent email to follow up 2016-01-15: Confirmed with Felix he is the point of contact for LA area; emailed him TG grid pages with markups 2016-02-17: Received some snapshots of their facilities in the project research area. Will received more detailed plans by the end of the week 2016-6-24: resent letter by email + Google Earth file, also requested further details to previous response 2016-8-2: CN resent letter again by email + Google Earth + GIS, also left voicemail 2016-8-3: Caleb King emailed, they will respond by 9/9 2016-8-10: Caleb verified by email that he is responsible for all of California. 2016-8-19: CN sent maps previously received to Caleb to ask for clarification and drawings. 2016-8-24: CN emailed Caleb to request phone number, his sig file shows Oklahoma address, no number. 2016-8-25: Caleb responded with phone number, requested Google Maps image of research area, offered to look into it himself. CN emailed Google Earth file + jpg maps Level 3 sent previously.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
2	SENER	Time Warner Cable (Charter)	2016-01-07 To 2016-08-24	john.jacinto@charter.com (714) 591-4878 (Dave's new #) O: (310) 647-5167 C: (714) 920-6026 west-engineering-relo@twcable.com dave.bell@charter.com	TAGC/Ray Wang HDR/Cherie Nixon	HDR to review maps; need to request maps 1&2 larger size 2016-01-07: Requested larger maps since they are not legible; waiting for response 2016-01-20: Called Dave Bell; would like us to email him of our concerns and he will forward the email/follow up with the group; Sent email to follow up 2016-01-26: Received new maps; still not legible 2016-02-22: Bell emailed us to let HDR know he has been passing the information along to the group to respond back with legible maps. 2016-03-21: received email w vague but legible pdf maps (via Roberto Rodriguez). 2016-5-6: rec'd email w vague pdf map (from westengrelo via Roberto Rodriguez) 2016-8-10: CN emailed westengrelo to request drawings that show distance to street CL. 2016-8-11: westengrelo emailed that they don't have drawings showing distance to CL. 2016-8-16: CN emailed Dave Bell to ask if there's any way to obtain drawings that show distance to CL. (Auto-response shows Dave's new Charter email after merger.) 2016-8-17: Dave suggested contacting John Jacinto at Charter, as well as westengrelo. 2016-8-23: CN emailed letter + Google Earth + GIS to John requesting detailed drawings. 2016-8-24: John ("JJ") replied to say he would look into it to see what they can provide.
3		Newhall County Water	5/2/2016	(661) 259-3610 jjenkins@ncwd.org	TAGC/Ray Wang HDR/Cherie Nixon	5/2 - rec'd CAD + pdf files fr Danielle Burleson Drawings don't show distance from CL - check CAD drawings. TAG to verify that CAD locations are correct (contact NCWD).

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
4	SENER	Southern California Edison (SCE) Overhead Power Transmission	2015-12-30 To 2016-09-20	(714) 796-9932 maprequests@sce.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2015-12-31: Emailed to respond request was received; currently in progress 2016-01-05: SCE would like a shape file for the project research area 2016-01-13: HDR sent SCE .dgn & .kmz file of the research area 2016-01-20: SCE sent non-disclosure agreement 2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements. 2016-8-5: Dennis called CN, he is checking if we already have NDA with them. 2016-8-18: Dennis emailed to let us know we do have an NDA with them. CN emailed Kim with 4/20 letter + Google Earth + GIS files requesting as-builts. 2016-8-19: Kim emailed to ask if the NDA was project specific, CN responded to say yes. 2016-8-24: Kim emailed to ask about the NDA (under HDR?), CN responded that it could be the CHSR Authority, Rail Delivery Partner, Cordoba Corporation, or Parsons Brinkerhoff. Kim also sent an invoice for \$81.30, CN forwarded to TAG to request payment. 2016-8-25: CN called Kim, invoice for a diff HDR project. Kim can't find NDA, explained their rules. CN emailed Dennis Kim requesting copy of NDA. Dennis said he will email it tomorrow morning. 2016-8-25: CN emailed Google Earth file + alignment exhibit to Kim as requested. CN emailed RDP Dennis Kim to request NDA. 2016-8-26: Dennis Kim sent NDA. 2016-8-30: CN emailed NDA to Kim, Kim said they can't accept it. CN emailed Joe McNeely to request that HDR sign its own NDA. 2016-9-6: Joe requested resolution fr RDP, Rick Simon said CN to contact Dennis Kim at RDP. 2016-9-9: CN emailed Dennis Kim to request that HDR sign NDA directly with SCE. 2016-9-20: CN called Dennis Kim to follow up. He will discuss it with the CHSR lawyer and get back to CN.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
5	SENER	SCE - Telecom	2016-04-23 to 2016-08-24	(626) 308-6186	TAGC/Ray Wang HDR/Cherie Nixon	2016-4-23: Letter received by SCE Telecom. 2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements. 2016-8-5: Dennis called CN, he is checking if we already have NDA with them. 2016-8-8: Dennis emailed to let us know we do have an NDA with them. CN to follow up after NDA found. 2016-8-24: CN called number for Tommy Savage, voicemail to someone else's name. Requested Tommy's number.
6	SENER	ATT - Distribution	2016-01-04 to 2016-09-01	(510) 645-2929 (Mary) ma2797@att.com (626) 817-4235 (Kathy) PM1736@att.com (626) 817-4289 (Cathy) al6941@att.com (626) 390-342	TAGC/Ray Wang HDR/Cherie Nixon	Would like a list of TG map grids 2016-01-04: Emailed a list of TG grids; waiting for response 2016-01-26: Called; no response 2016-02-10: ATT emailed back to ask more questions about billing for the map request and for more detail of project location; HDR response is to send TG maps; ATT called and state TG pages are too vague and need the exact street crossings 2016-02-15: HDR asked the pricing per grid or intersection 2016-03-02: HDR responded by sending .kzm file for clarity and described the research location in email 2016-03-03 more calls & email clarification w Mary Ramos & Kathy Montoya, requested fee estimate 2016-03-04 Mary Ramos emailed fee invoice, \$501.40 2016-4-28: Mary Ramos called, need specific streets & intersections, and payment for previous request TAG to pay \$501.40 fee, Cherie to clarify remaining info with Mary Ramos. (CN gathering info for Mary.) 2016-8-1: TAG has sent the check with \$501.40 to Mary/AT&T. 2016-8-3: CN emailed Mary with description, requested cost estimate of additional as-builts. 2016-8-11: Mary called for clarification, said she mailed first package this week. 2016-8-15: HDR received first set of as-builts, saved to PW. 2016-8-17: Mary left voicemail requesting TG pages with narrowed request area highlighted 2016-9-1: Kathy Montoya sent invoice \$1286.20. TAG to pay invoice (not paid yet), CN preparing sketches to send.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
7	SENER	Los Angeles Department of Water and Power (LADWP)	2015-12-30 To 2016-08-20	(213) 367-4957 Edgar.Mercado@ladwp.com (213) 367-2715 Ernest.Fresquez@ladwp.com Charles.Dunn@ladwp.com Jeffrey.Williams@ladwp.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-30: Sent out email with attached letter for utility request</p> <p>2016-01-20: Left voicemail</p> <p>2016-01-26: Spoke with Ernie; would like TG map pages to narrow down the research area; sent to Ernie</p> <p>2016-6-24: resent letter by email + Google Earth file</p> <p>2016-7-18: called & emailed to follow up, resent list of TG grids + 4/20 letter + Google Earth file, voicemail</p> <p>2016-7-18: reached Ernie, leaving the group, recommended contacting his boss, Edgar Mercado. Emailed Edgar 2016-4-20: letter, Google Earth file, left voicemail.</p> <p>2016-8-3: TAGC called & left voice message to Edgar.</p> <p>2016-8-10: TAG called & left voice message to Edgar. No response.</p> <p>2016-8-15: TAG emailed & left voice message to Edgar again. No response yet.</p> <p>2016-8-18: TAG emailed 4/20 letter + Google Earth + TG pages to Charles Dunn & Jeffrey Williams.</p> <p>2016-8-19: Charles Dunn emailed TAG, too busy for large requests, recommended Navigate LA + Google Earth/field review. TAG to follow recommendations.</p> <p>2016-8-20: TAG will use substructure map from Navigate LA +Google Earth/field review to figure out the LADWP facilities. This line item can be move to the lower priority.</p>
8	SENER	Air Touch Cellular (Telephone)	2015-12-23 To 2016-02-26	(818) 898-2352 matthew.kang@cableeng.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-23: Would like a list of TG map grids</p> <p>2016-01-04: Emailed a list of TG grids; waiting for response</p> <p>2016-01-06: Emailed Thomas Guide Pages with markups</p> <p>2016-01-07: Response it will take then 1-2 months to complete the research since it's a major request</p> <p>2016-02-22: Sent follow up email to Air Touch Cellular</p> <p>2016-02-23: Followed up in email; they will send info to HDR soon</p> <p>2016-02-24: HDR sent email to Kang for Sharepoint login/upload</p> <p>2016-02-26: Air Touch Cellular sent us information on their facilities via email; HDR to review.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
9	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	2016-02-11 To 2016-10-12	Sam Queszada 4th floor, Survey Department, 900 S Fremont Ave Alhambra, CA 91803	TAGC/Ray Wang HDR/Cherie Nixon	2016-2-11: Shane downloaded a few pdfs in Palmdale fr website -> TAG to search for more as-builts online, find contact name (check with Stan Pegadiotes from San Districts) 2016-7-28: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather sewer plans. 2016-8-1: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather ALL sewer as-builts. Those drawings are all within the City of Palmdale. 2016-8-2: Hank Fung also emailed conceptual sewer maps to HDR. 2016-10-12: TAG evaluated the as-built and input applicable information in CAD base. uploaded files in 4.10 folder in PW.
10	SENER	AT&T - Transmission	2015-12-30 To 2016-06-27	(213) 787-9996 mg1371@att.com g05131@att.com (cc this email)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-06: Emailed confirmed there are no AT&T TCA facilities in the project area 2016-6:24: resent 4/20 letter by email + Google Earth file 2016-6-27: Maria forwarded original 6/13 response

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
11	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	2016-07-01 To 2016-08-08	(626) 458-3980 Fung hfung@dpw.lacounty.gov (626) 458-3935 Swindle	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-7-01: Letter drafted, waiting for internal approval</p> <p>2016-7-18: Letter sent + email with comments, called Hank Fung. Hank said they can look for the plans, also advised coming in to check microfiche, and checking with the Army Corps of Engineers.</p> <p>2016-7-19: Hank requested GIS files used to create Google Earth file.</p> <p>2016-7-20: Hank requested we resend Google Earth file. Resent Google Earth + GIS files.</p> <p>2016-7-26: Hank emailed to let us know they're working on gathering as-builts for us.</p> <p>2016-7-28: Bill asked if LACFC has facilities in Palmdale, emailed Hank, he confirmed none.</p> <p>2016-8-2: Hank Fung will mail SD as-builts to Cherie/HDR.8/</p> <p>2016-8-4: Hank Fung has 1.4G files ready for TAG to pick up.</p> <p>2016-8-8: TAG has copied the 1.4G files from Hank Fung.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
12	SENER	County Sanitation Districts of Los Angeles County (LACSD)	2016-02-11 to 2016-08-25	(562) 908-4288 x1204, x1205 (engineering counter) engineeringcounter@lacs.org (562) 908-4288, x1620 (Stan P) Klipock@lacs.org	TAGC/Ray Wang HDR/Cherie Nixon	2016-2-11: Shane emailed engineering counter to request as-builts for portion in Palmdale (not allowed to request larger area at that time, 4/20 letter addressed to LACDPW) 2016-2-24: Koesen Lipock fr eng counter emailed link to Shane, 119 pg pdf 2016-7-19: emailed 4/20 letter to eng counter, request remaining as-builts 2016-7-20: Koesen requested map, can't open kmz file, emailed pdf. 2016-7-23: Stan Pegadiotes emailed, no longer with sewer design section. 2016-7-25: Koesen emailed link, CN forwarded to TAG. (7/27 reforwarded email to TAG.) 2016-7-29: TAG emailed a sewer drawing list to LACSD Engineering Counter. 2016-8-2: Koesen emailed to mention that they are working on the collection of sewer as-builts. 2016-8-4: Koesen emailed a link to the drox for TAG to download the sewer as-builts. TAG has downloaded them and uploaded to PW. 2016-8-11: TAG coordinated with Koesen for collecting some additional as-builts that we've not gathered last time. no response yet. 2016-8-16: Koesen responded that he will upload the additional as-built to the box (FTP) 2016-8-24: TAG emailed to request a status. 2016-8-25: TAG has downloaded all additional as-built drawings from LACSD. This line item can be moved to the lower priority.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
13	SENER	Metropolitan Water District	2015-12-14 To 2016-06-07	(213) 217-6534 (213) 217-7474 szareh@mwdh20.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-14: Provided HDR a card for project reference ID 2015-12-21: As-builts received 2016-5-26: rec'd letter w as-built plans 2016-6-7: replied requesting missing document listed in letter
14	SENER	Palmdale Water District	2016-05-20 To 2016-07-28	(661) 456-1022 (661) 947-4111 (Eng Dept.) mwest@paldalewater.org mknudson@paldalewater.org	TAGC/Ray Wang HDR/Cherie Nixon	2016-5-20: met w Matthew Knudson, Joe McNeely, Roberto Rodriguez (Sener), RDP 2016-6-24: resent letter by email + Google Earth file (to MK, cc MW) 2016-7-19: resent letter by email + Google Earth file (to MW, cc MK), also emailed Roberto Rodriguez to check if he had received anything 2016-7-20: left voicemail for Michael West. He called back, requested narrower research area. We'll add him to Sharepoint, he'll look into the GIS files that Matt promised, and the as-built drawings. Emailed GIS files of research boundary + narrower as-built boundary. 2016-7-21: Richard Heinonen emailed GIS files. Mike West now has Sharepoint access to upload as-builts, emailed link & password. 2016-7-25: Mike West emailed re Sharepoint issues. CN responded with suggestions. 2016-7-26: Mike West emailed to verify mailing address, will send a disk in the mail. 2016-7-28: Received disk from Mike West with pdf as-builts.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
15	SENER	Plains All American Pipeline (Oil)	2015-12-30 To 2016-09-07	(562) 728-2817 (Becky Sitton) bsitton@paalp.com (562) 728-2371 pjbawden@paalp.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-04: Left voicemail to follow up 2016-01-15: Spoke with Paula; would like us to email them TG pages with markups; follow up next week for the map request 2016-02-04: Sent out follow up email 2016-02-17: Left voicemail to follow up 2016-02-22: Called at 1:15 PM; no response 2016-02-23: Received email Becky Sitton will be working on HSR 2016-02-24: Becky will be sending us information in the mail; will send hardcopy in mail 02/25 2016-02-29: Received hardcopies of the plans in the mail from Plains; HDR to review 2016-4-23: Letter received by Plains 2016-5-11: email to ask if we want duplicates fr previous request, responded no 2016-5-17: hard copies received - appear to be as-builts, but can't find distance fr street CL 2016-8-5: CN verified to Becky Sitton that we have all as-builts in the Metrolink R/W (after series of emails that turned out to be irrelevant.) 2016-8-18: CN emailed Becky to verify shared trench w Centurylink (was Qwest), Becky confirmed. 2016-9-6: CN emailed Becky to ask if any of their pipe is above ground. 2016-9-7: Becky replied that it's all underground except at Hollywood Way where it is encased in cement, and Pacoima Wash where it hangs on the bridge.
16	SENER	State of California, Department of Water Resources	2016-05-27 To 2016-06-20	(661) 994-8574 jdes@water.ca.gov	TAGC/Ray Wang HDR/Cherie Nixon	no response, HDR and/or RDP planning to meet with them 2016-5-27: DWR gave as-builts to the RDP (see 05.11.02 folder) 2016-6-20: DWR gave hydrology report to the RDP (See 05.11.02 folder)

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
17	SENER	AT&T - Transmission (Telephone)	2015-12-28 To 2016-08-25	(714) 963-7964 (Forkert) joef@forkertengineering.com (925) 997-2413 (Hamill) (714) 963-7964 (Shapzian) (559) 442-2252 (Shermoen)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-28: Responded with two letters; Sending AT&T plans in the mail (hardcopies) 2015-12-30: Received Plans and letter hardcopies in the mail; HDR to review 2016-5-3: email w lease letter & conflict letter 2016-5-9: received hard copies in the mail 2016-8-24: CN left voicemail asking Joe to call me re where to find cable locating dimensions in as-builts. 2016-8-25: Joe called CN, explained leased vs owned. They can provide maps of owned conduit, contact other AT&T Dig Alert contacts for leased conduit. Mapping shows as-builts at Metrolink Ventura sub, mapping in other locations.
18	SENER	Los Angeles County Water Works	2016-02-24 To 2016-09-20	(661) 300-3337 bhua@dpw.lacounty.gov jkitto@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-02-24: Bing Hua emailed, uploaded pdfs to Sharepoint site 2016-5-3: Bing emailed to let us know that they have no additional facilities in the new research area that they hadn't already sent 2016-7-26: Jason Kitto asked for shape files of research area, CN emailed them. Also emailed list of pdfs that Bing Hua sent in Feb to avoid duplicate efforts. 2016-7-28: Jason Kitto asked for GIS or Google Earth file of alignments, CN emailed it. 2016-8-1: TAG visited LAC Water Works (Jason Kitto, 2nd floor Water Resource Dept.). He said that he has completed the water research and it will take 3-4 weeks for them to gather as-builts and send directly to Cherie/HDR. 2016-9-20: CN emailed Jason Kitto to follow up on status of request. Jason called and said that what Bing sent covers everything they have in our research area.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
19	SENER	Southern California Gas (SCG) - Transmission	2015-12-30 To 2016-08-24	(818) 701-3253 (Chris Coria) Ccoria@semprautilities.com (818) 701-6679 (818) 701-4546 rsquires@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-14: Resent letter by email to Rosalyn; asked us to follow up next Tuesday 01/19 2016-01-15: Sent Squires .kmz file per request 2016-01-15: Squires sent plans per request; HDR to review 2016-5-5: Estafania Sanchez requested Google Earth file of request area 2016-6-22: emailed Google Earth file to Estafania 2016-6-24: Estafania called to verify what we need, and to check if our previous request was fulfilled 2016-6-27: Estafania tried to email files, but they didn't come through. Janet will add her to the Sharepoint site. 2016-6-28: Sharepoint access didn't work, so Estafania sent info through multiple emails. 2016-8-23: CN emailed Estefania to request as-builts, priority Ave S (currently have maps with distances but not as-builts. 2016-8-24: Estefania responded that another engineer can work with us to send as-builts after we send preliminary construction drawings. CN requested contact info for that engineer, Estefania gave Chris Coria's info. CN emailed Chris to request as-builts of gas mains in Ave S. 2016-9-6: CN emailed to ask if any of their pipes are above ground. 2016-9-9: Estafania responded to ask for clarification, CN responded.
20	SENER	T-Mobile (Telephone)	2015-12-09 To 2016-06-27	(818) 840-0808 (805) 279-3513 shenderson@synergy.cc glake@synergy.cc	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-09: Gregg Lake emailed pdfs package returned 2016-6-24: resent letter by email + Google Earth file 2016-6-27: Gregg Lake emailed, didn't receive letter, send directly to him next time. No utilities.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
21	SENER	XO Communications (Telephone) - Los Angeles	2015-12-07 To 2016- 08-23	(949) 417-7841 matt.bergine@xo.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-07: Need to review information provided 2016-4-27: received pdf as-builts 2016-8-2: CN emailed Matt to ask questions about the drawings they sent. 2016-8-3: Matt responded with answers to questions.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
22	SENER	City of Palmdale	2015-12-30 To 2016-10-12	(661) 267-5347 (Deyo) jdeyo@cityofpalmdale.org (661) 267-5272 (Autry) sautry@cityofpalmdale.org (661) 267-5337 (Behen) mbehen@cityofpalmdale.org (661) 267-5300 (Gen City No.) bpadilla@cityofpalmdale.org	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-04: Stephanie Autry from City of Palmdale responded to email; Fwd email to Bill Padilla, City Engineer; waiting for response 2016-01-05: Email confirmed that the project research area is not in their City's limits 2016-4-27: Jim Deyo emailed GIS files for sewers 2016-7-26: TAG Sent email to Jim GIS +Google Earth and April Letter pdf requesting storm drain As-builts; 7/26 Received Storm Drain GIS Files from Jim. 2016-7-26: TAG left a voicemail message to Jim no response. 2016-8-1: Jim emailed TAG, sending CD with storm drain as-builts today 2016-8-2: TAG asked Jim who should be contacted for other as-builts such as roadway, water, lighting, etc. Jim said Engineering section. He will also forward this request to City Engineer. Engineering Section will collect everything in next couple of weeks. TAG will follow up. 2016-8-10: TAG emailed Jim Deyo to confirm if he has mailed to CD to us but he has not done yet due to waiting for other utility as-builts together. 2016-8-24: TAG followed up and Jim Deyo responded and he is still waiting for other as-builts. Eng Dept. has several large data requests and they are busy. will find out when they can have all the information. 2016-8-29: TAG emailed Jim to request if he can send whatever available information to us and send a separated mail for the remaining files. 2016-9-1: Jim emailed TAG to confirm mailing address. 2016-9-7: TAG received 8 disks of CD from CoP (Jim), will evaluate the as-builts and upload the files to PW. 2016-10-12: TAG evaluated the files which are "1A". The files were saved in 4.10 folder in PW.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
23	SENER	Los Angeles County Department of Public Works (LACDPW)	2016-01-04 To 2016-08-25	(626) 458-3109 dchenowe@dpw.lacounty.gov v jbouse@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-01-13: Contact Anne Marie Gilmore and Kari Eskridge from 710 project for LACDPW utility coordinator; Eskridge provided contact, Daryll Chenoweth; called and confirmed Daryll Chenoweth is the contact & provided mailing address; sent letter hardcopy in mail & email 2016-4-26: Daryll emailed long description for how to pursue further info 2016-8-25: TAG has followed Daryll's email instructions and collected the as-builts for sewer, storm drain, Street Lighting (limited information). See other LACDPW line items for more info.
24	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	2016-07-28 To 2016-08-24	(626) 300-4753 jchow@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-7-28: TAG visited LACDPW street lighting Dept. (Jeff Chow 1000 Fremont 4th floor). He'd forward the info to Hank Fung that day. 2016-8-11: TAG emailed Jeff Chow to confirm if he could send as-builts to us since Hank did not include street lighting as-builts. Jeff is on vacation and be back on Aug 15. 2016-8-17: Jeff and Jimmy sent a pdf showing street lighting drawing number. 2016-8-18: TAG emailed Jeff to request real as-built drawings. 2016-8-24: Jeff Chow responded and instructed that Street Lights are owned and maintained by SCE. Any as-builts drawings can be requested from SCE.
25	SENER	Time Warner Cable (Telephone)		(661) 259-6909 dianell.caamano@twcable.com	HDR/Cherie Nixon	package returned follow up with Dave Bell

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
26	SENER	SCG - Distribution Valencia/ Branford/ Saticoy/ Lancaster (Gas)	2016-01-04 To 2016- 08-24	(818) 701-3335 (Bruce) (818) 701-3448 tbruce@semprautilities.com bwimmer@semprautilities.com elewis3@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>Would like more detail on the alignments on Thomas Guide Map</p> <p>2016-01-04: Emailed a list of TG grids; waiting response to Timothy Bruce</p> <p>2016-01-11: Received an invoice from SCG before they can distribute the plans</p> <p>2016-02-25: SCG Dist sent in the mail a CD with the plans</p> <p>2016-03-01: HDR received CD with plans</p> <p>2016-5-20: letter w invoice \$1512 (Timothy Bruce)</p> <p>2016-7-25: email & voicemail to Tim to check status, back from vacation tomorrow.</p> <p>2016-7-26: Tim emailed to confirm we still owe \$1512. HDR reminded the RDP.</p> <p>2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements.</p> <p>2016-8-5: Dennis called CN, suggested asking Juan Carlos to approve payment.</p> <p>2016-8-10: RDP approved payment of \$1512, TAG to pay fee.</p> <p>2016-8-15: TAG mailed the check of \$1512 to SCG (Billing Dept.)</p> <p>2016-8-16: CN emailed Tim to let him know the check is in the mail, and to request an estimate of when we will receive the drawings.</p> <p>2016-8-19: Tim Bruce emailed, said he's putting CD w as-builts in the mail.</p> <p>2016-8-24: HDR received CD w atlas sheets. CN emailed to request clarification of legend. Tim sent legend.</p>

Appendix D: Utility Log Index

Heading	Explanation
No.	Sequentially number each entry
Region	Regional Consultant
Owner	Utility Owner
Contact	Name of the contact person representing the Owner
Title	Job title of the contact person representing the Owner
Address	Street Address, City, and Zip Code of the Owner's contact location
Phone	Phone number for Owner's representative
Email	Email address for Owner's representative
HSR Alignment	High-Speed Train Alignment Subsection Alternative
Station	Stationing along the alignment to locate the facility
Facility Type	Type of utility being conveyed
Size	Size of utility facility
Units	Units of measure for the size of utility
Length	Length of utility being impacted - Use separate entries for abandonment and relocated utilities
% Cost Allocation	Percentage of construction cost to be borne by CHSRA (requires input by CHSRA)
Disposition	State the type of work being performed (removed, relocated, protect in place)
Date	Date of contact with Owner
Correspondence Type	Type of correspondence with Owner (phone, fax, letter, email)
Description	Description of the discussion and/or request. Include reference to email or letter dates

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California High-Speed Rail Authority

Palmdale to Burbank Project Section

PEPD RECORD SET REV01

Appendix 3.6-A High Risk & Major
Utility Impact Report E2

August 2022



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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ACRONYMS AND ABBREVIATIONS

ANF	Angeles National Forest
Authority	California High-Speed Rail Authority
CEQA	California Environmental Quality Act
CFS	Cubic Feet per Seconds
CHSTP	California High-Speed Train Project
DPW	Department of Public Works
EIR	Environmental Impact Report
EIS	Environmental Impact Study
FRA	Federal Railroad Administration
GIS	Geographic Information System
HDC	High Desert Corridor
HMF	Heavy Maintenance Facilities
HSR	High-Speed Rail
kV	Kilo Volts
LACWD	Los Angeles County Waterworks Department
LACFCD	Los Angeles County Flood Control District
LADWP	Los Angeles Department of Water and Power
LMF	Light Maintenance Facility
MWD	Metropolitan Water District
NB	North Bound
NEPA	National Environmental Policy Act of 1969
OH	Overhead
PB	Palmdale to Burbank
PSI	Pounds per Square Inch
RDP	Rail Development Partners
RSA	Resource Study Area
ROW	Right of Way
SB	South Bound
SCE	Southern California Edison
SCG	Southern California Gas (The Gas Company)
SCRRA	Southern California Regional Rail Authority (Metrolink)
SGMNM	San Gabriel Mountains National Monuments
SR	State Route
TM	Technical Memorandum
TPSS	Traction Power Substation

UG	Underground
UPRR	Union Pacific Railroad
WD	Water Department

EXECUTIVE SUMMARY

The California High-Speed Rail (HSR) Authority (Authority) proposes to construct, operate, and maintain an electric-powered HSR system in California. When completed, it will run from San Francisco to the Los Angeles Basin in under 3 hours at speeds capable of exceeding 200 miles per hour. The system will eventually extend to Sacramento and San Diego, totaling 800 miles with up to 24 stations.

The Authority and the Federal Railroad Administration (FRA) have prepared program-wide, Tier 1 environmental documents for the HSR system under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Specifically, the Authority and FRA prepared the Statewide Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) (Authority and FRA 2005) to evaluate the ability of the HSR system to meet the existing and future capacity demands on California's intercity transportation system. The Authority and FRA also prepared the Bay Area to Central Valley HSR Program EIR/EIS (Authority and FRA 2008) to identify a corridor alignment and the station locations for the connection between the Bay Area and the Central Valley.

The Authority and FRA are now undertaking second-tier, project environmental evaluations for several sections of the statewide system. This report is for the Palmdale to Burbank Project Section. This project section is approximately 38- to 44-mile long, and has multiple alignment alternatives under study. The project section extends through a variety of land uses and ecoregions, including urban, rural, and mountainous terrain. Each alignment alternative would involve areas of tunneling beneath the Angeles National Forest (ANF), including portions within the San Gabriel Mountains National Monument (SGMNM).

Each of the alternatives under analysis in the Palmdale to Burbank Project Section is divided in three subsections: Palmdale, Central and Burbank.

This report evaluates the impacts of High Risk utilities and major utilities (transmission) on the construction of the E2 Alternative Palmdale to Burbank Section of the California HSR System.

This report is prepared at a 15% Design Level, and the information is compiled according to TM 2.7.4 Designer's Responsibilities and Utility Requirements. It discusses the E2 Alignment Alternative from Palmdale to Burbank. The utilities discussed in this report do not include storm drains. For information regarding storm drains, see Palmdale to Burbank Project Section PEPD Record Set Rev01 Stormwater Management Report Alignment E2.

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1 INTRODUCTION

The planning, design, construction, and operation of the California High-Speed Rail (HSR) System are the responsibility of the California High-Speed Rail Authority (Authority), a state governing board formed in 1996. The Authority's statutory mandate is to develop an HSR system coordinated with the state's existing transportation network, including intercity rail and bus lines, regional commuter rail lines, urban rail and bus transit lines, highways, and airports. The Authority's plans call for high-speed intercity train service on more than 800 miles of track throughout California, connecting the major population centers of Sacramento, the San Francisco Bay Area, the Central Valley, Los Angeles, the Inland Empire, Orange County, and San Diego. Implementation of the California HSR System is planned in two phases. Phase 1 would connect San Francisco to Los Angeles and Anaheim through the Central Valley. Phase 2 would connect the Central Valley (Merced Station) to Sacramento, and another extension is planned from Los Angeles to San Diego. The HSR system would meet the requirements of Proposition 1A, including maximum, nonstop service travel time between San Francisco and Los Angeles of two hours and 40 minutes.

The Palmdale to Burbank Project Section would be a critical link in the Phase 1 HSR system connecting San Francisco and the Bay Area to Los Angeles and Anaheim. In 2005, the Authority and the Federal Railroad Administration (FRA) relied on Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) documents to select the SR-58/Soledad Canyon and LACMTA/Metrolink corridors as the preferred alignment between Bakersfield and Sylmar, with a station in the City of Palmdale. This alignment would extend east from Bakersfield along SR-58, generally following SR-58 through the Tehachapi Mountains to Mojave, along LACMTA/Metrolink corridors through Antelope Valley and Soledad Canyon, and generally follow SR-14 from the City of Santa Clarita to Sylmar in the City of Los Angeles (FRA 2005). The SR-58/Soledad Canyon and LACMTA/Metrolink corridor from Bakersfield to Los Angeles was later split into two sections for more detailed project-level evaluation: the Bakersfield to Palmdale Section and the Palmdale to Los Angeles Section.

The alternatives for the Palmdale to Los Angeles Section were then defined through public scoping conducted for the Palmdale to Los Angeles Section in 2007, the alignment and station screening evaluation process described in the Palmdale to Los Angeles Preliminary Alternatives Analysis Report (PAA) (2010), and the Palmdale to Los Angeles Supplemental Alternatives Analysis (SAA) Reports (2011, 2012, and 2014).

A recommendation in the 2014 SAA Report in May 2014 was that the Palmdale to Los Angeles Section be divided into two sections (Palmdale to Burbank and Burbank to Los Angeles). Following this recommendation, a second public scoping period took place from July to September 2014. Following this public scoping period, the Palmdale to Burbank SAA Report (2015) was presented to the Authority Board of Directors in June 2015.

Subsequently, during the June 9, 2015 Board meeting, issues were raised regarding the alternatives presented in the 2015 SAA. Subsequent to the Board meeting, the Authority explored ways to refine the alternatives so as to address concerns raised at the Board meeting and through previous stakeholder outreach. The 2016 SAA, presented to the Authority Board of Directors in April of that year, reflects refinements to the rail alignments, stations, and ancillary features presented in the 2015 SAA.

This report documents the detailed technical description of the High Risk and Major utility impacts along rail alignment E2 Alternative for Palmdale to Burbank Section of the California HSR System. This report includes the following:

- Identifying owners of existing utilities to be impacted within the project footprint
- Classifying existing utilities as High Risk or Major utilities in order to identify those that could significantly impact the operation of the high speed train, or vice versa.
- Identifying other significant utility related facilities impacted within the project footprint.
- A matrix of impacted utilities and their relocation dispositions.

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2 PROJECT DESCRIPTION

The Palmdale to Burbank Project Section includes three potential alignments that would extend approximately 38- to 44-miles through a variety of land uses and ecoregions, including urban, rural, and mountainous terrain in Southern California. From the north, this project section would begin at Avenue L in Lancaster, travel south through the Palmdale Transportation Center (Palmdale TC) Station, continue southwest beneath the Angeles National Forest (ANF), and then enter the San Fernando Valley where it would connect with the Burbank Airport Station and terminate just north of Winona Avenue. This project section also includes a potential maintenance facility in the Lancaster area.



Figure 2-1 Palmdale to Burbank Alignment Alternatives

2.1 E2 Alternative

This section briefly describes the Palmdale to Burbank Project Section E2 Alternative.

Palmdale Subsection

The northern limit of the Palmdale Subsection is Avenue O in the City of Palmdale, on the west side of Sierra Highway. South of Avenue O, the Refined SR14 alignment would run parallel to and approximately 200 feet west of the existing Metrolink Antelope Valley right-of-way. The alignment would enter the Palmdale TC after crossing over East Avenue Q, approximately two miles south of Avenue O. The alignment would follow the existing 6th Street East right-of-way through the Palmdale TC.

After travelling through the Palmdale TC, the Refined SR14 alignment would remain in the 6th Street East right-of-way until intersecting Avenue R. South of Avenue R, the alignment would continue for approximately 700 feet to a point east of Spruce Court. This point represents the southern limit of the Palmdale Subsection.

Central Subsection

The E2 alignment within the Central Subsection would be identical to the E1 alignment between Spruce Court and Aliso Canyon Road.

To the immediate west of Aliso Canyon Road, the E2 alignment would enter twin 16.6-mile-long tunnels, initially traveling to the southwest (maximum depth approximately 2,670 feet). The initial 7 miles of these tunnels would travel beneath the ANF/SGMNM. The E2 alignment would continue southwesterly, curving to a more south-southwesterly direction as the alignment passes beneath Mendenhall Ridge Road and then through the San Gabriel fault.

After traveling beneath the ANF/SGMNM in twin tunnels, the E2 alignment would transition from tunnels to at-grade in the hills above the Lake View Terrace neighborhood of the city of Los Angeles. After crossing the Sierra Madre fault zone, the E2 alignment would continue at grade for approximately 0.2 mile, before transitioning to an elevated viaduct structure over Arnwood Road, Foothill Boulevard, and the I-210 freeway and then would continue to cross Big Tujunga Wash, and cross below Wentworth Street in the Shadow Hills neighborhood (city of Los Angeles).

After crossing Wentworth Street, the E2 alignment would transition to tunnels (maximum depth approximately 240 feet) for approximately 1.5 miles. This portion of the alignment would continue in the same south-southwesterly direction until approximately Peoria Street in the Sun Valley neighborhood of the city of Los Angeles. Beneath Peoria Street, the E2 alignment would curve to the southeast beneath Sunland Boulevard, I-5, and San Fernando Road. This tunnel would extend until San Fernando Road. At this point, the alignment would transition into a cut-and-cover tunnel that would cross San Fernando Road until Lockheed Drive, which is the southern limit of this subsection.

Burbank Subsection

From Lockheed Drive, the E2 alignment would transition continue into a cut-and-cover tunnel for approximately 0.3 mile before entering the Burbank Airport Station underneath Kenwood Street.

After exiting the underground station, the alignment would join with the tunnel alignment proposed within the Burbank to Los Angeles Project Section.

Maintenance Facility

The E2 alignment would extend north of the Palmdale Subsection to Avenue L so as to include the area associated with a proposed maintenance facility as well as associated mainline rail alignment and ancillary features.

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3 PURPOSE AND SCOPE

This report identifies the potential impacts to existing utilities from the proposed HSR alignment and improvements associated with the project. The preliminary investigation will identify High Risk and Major utilities affected by the proposed HSR track corridor, HSR station and systems facilities, upgraded UPRR and Metrolink facilities, bridge structures overcrossings, roadway grade changes and alignments, and drainage. This report focuses on the High Risk and Major Utilities that present the most significant impacts to the proposed E2 alignment.

The Authority's definitions of High and Low Risk utilities were used in this assessment (per TM 2.7.4).

High Risk Utilities are defined as existing facilities transporting the following materials, whether or not they are encased:

- Petroleum Products (jet fuel, crude oil, gas oil, gasoline, etc.)
- Oxygen
- Chlorine
- Toxic or flammable gases or liquids
- Natural gas pipelines of any size
- Underground electric supply lines that conduct greater than 300 volts (without effectively grounded metal sheaths)
- Water in pressured pipeline

Other High Risk Utilities that could Disrupt the Operation of CHSTP:

- Sanitary Sewer in pressured pipeline
- Storm Drain in pressured pipeline.

Low Risk Utilities include:

- Sanitary Sewer gravity pipelines
- Storm Drain gravity pipelines
- Fiber Optics communication lines
- Telecommunications lines

Major Utilities are defined as subsurface, above ground or overhead facilities used for transmission (or subtransmission) regardless of size, shape or method of conveyance. These would include:

- Overhead and subsurface power transmission lines, 50 kV or greater
- Fiber Optic/Telecommunications transmission lines
- Sanitary Sewer trunk lines, 12-inch diameter or greater
- (Storm Drains are not included in this report; see the Hydrology and Hydraulics Report Alignment E2 PEPD Record Set Rev01, September 2019).
- Minor Utilities are defined as any subsurface, above ground, or overhead facility used as distribution lines, or as service laterals to individual parcels or properties.

Note that not every utility type or size listed above exists in this subsection of the project.

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4 UTILITY INFORMATION COLLECTION

This section discusses the data collection efforts to map existing facilities and to identify the potential impacted facilities along the proposed E2 Alignment Alternative.

4.1 Data Sources

The design team reached out to both public and private utility owners whose facilities would potentially be affected by the proposed footprint of all three HSR alignment alternatives. The first solicitation effort to acquire as-built and utility service maps was to send letters, with exhibits depicting the proposed alignments, to all utility owners within the potential project footprint. The next course of action was to follow up with emails and phone calls if the utility owner was not responsive. A utility owner contact log has been established as a living document to record the due diligence taken during information gathering stage of this study (See Appendix C).

In addition, utility record drawings and as-built information will be collected from various sources including public agencies (navigatela.lacity.org), third-party drawings and respective stakeholders. Site visualization and Google Earth map were also used to identify and/or confirm various above ground and aerial facilities.

4.2 Utility Owners – As-Built Drawings and Service Maps

Existing utility record maps and as-built drawings can vary in accuracy, depending upon the time and method of preparation.

Ideally, we would have received as-built engineering drawings and electronic maps in GIS, Microstation, or AutoCAD from every utility owner. Unfortunately, this was rarely the case. We received information in a variety of formats, with varying levels of detail. Formats received from utility owners included:

- As-built engineering drawings (hard copy, pdf)
- Service maps (GIS, Microstation, AutoCAD)
- Facility maps (hard copy, pdf)
- Various forms of vague mapping with little to no detail (various)

From each owner who couldn't provide as-built drawings, we attempted to collect some form of mapping that showed the location of each pipe or conduit in relation to the street centerline, pipe size, and material.

4.3 Web-based Geographic Information Systems

The City of Palmdale's online GIS verifies the water utility service zoning within Palmdale. The primary water service providers are the Palmdale Water Department and Los Angeles County Waterworks Department. However, this GIS information does not specify where the pipes are relative to the street centerlines.

Los Angeles County Flood Control District's (LACFCD) GIS data shows existing storm drains without specifying distance from the street centerline. For known owners, the GIS provides a link to the as-built. In Palmdale, only sizes are shown and the owners are listed as unknown.

SCE's Distributed Energy Resource Interconnection Map (DERiM) shows its transmission and sub transmission line, distribution and subtransmission substations within the map. Information provided includes voltage rating, circuit name, substation, and system.

4.4 Google Map Overlays

SoCal Gas's website uses an overlay of the gas transmission and distribution line within Google Maps. It shows approximation of its utility alignment and no information of its pipe sizes.

The Center for Land Use Interpretation displays in three-part web resources for LADWP facility information and location that overlay google maps within its website. Part 1 shows locations and brief information about LADWP source of power. Part 2 shows locations and brief information about receiving stations, converter stations, switching stations, and other control facilities. Part 3 shows location and brief information about LADWP local distribution stations within their network.

4.5 Google Map Street View

This method was used to verify above ground structures such as utility poles, above ground vaults and utility cabinets, maintenance holes for sanitary sewers and storm drains, and standpipes for water valves.

5 UTILITY IMPACTS

Utility impacts along the E2 Alignment Alternative are grouped into two risk categories, and two significant scale categories:

- High Risk Utilities
- Low Risk Utilities
- Major Utilities
- Minor Utilities

This report focuses on the evaluation of impacted High Risk and Major Utilities E2 Alignment Alternative.

5.1 Significant Impacts

High Risk and Major Utilities as listed above that may impact the operations are defined as “Significant Impacts”. High Risk utilities identified in this subsection of the project include natural gas lines and pressurized water lines. “Major” refers to Low Risk Utilities that are also critical in transmission of services. Major utilities identified in this subsection of the project include gravity sanitary sewer trunk lines and overhead power transmission lines.

Reference Table 5-1 for the total count of “Significant Impacts.” For more detailed information, see the utility logs in Appendix B.

Table 5-1 Significant Utility Impacts

	E2
All High Risk	155
Major Low Risk	102
Total	257

5.2 High Risk

High Risk utilities are defined as petroleum products, oxygen, chlorine, toxic or flammable gases or liquids, all sizes of natural gas pipelines, underground power supplies, pressurized water pipelines, and pressurized sewers. For the list of all high risk utilities within the footprint, see Appendix B. Ongoing updates to the utility composite sheet will reflect updates to this report.

5.2.1 Petroleum Products (Oil, Gasoline, Crude)

Utility map reveals a potential impact to two existing oil lines within San Fernando Road at cut and cover portion. The owner of 20-inch oil line is Plains All American Pipeline and lies within the Metrolink right of way. The oil line is outside of the motorist traveled way and can potentially be protected in place.

The second potential impact is to the 8-inch idle oil line owned by Exxon-Mobil. It lies within the City of Los Angeles right of way. The oil line will potentially need to change elevation to avoid the proposed deck for the San Fernando Road motorist traveled way.

Table 5-2 Oil Line Impacts

	E2
Oil	3

5.2.2 Natural Gas

Utility maps in Palmdale indicates a 10-inch transmission line within the longitude of East Avenue O and veers south 10 feet east offset from Lockheed Advanced Development property line. One 6-inch diameter high pressure distribution line along East Avenue Q. A notable impacted natural gas lines are the two 30-inch transmission line along East Avenue S. The Southern California Gas Company owns this pipeline.

Reference Table 5-3 for the total count of impacted natural gas lines. Refer to Appendix B for more detailed information.

Table 5-3 Natural Gas Impacts

	E2
Natural Gas	42

5.2.3 Water Utilities

Several waterlines will be impacted by the footprint: the proposed HSR alignments, the proposed Palmdale Station, Burbank Station and the associated roadway network realignments. The owners of the impacted facilities include Palmdale Water District, Los Angeles County Waterworks District 40 – Region 34 and District 37, Antelope Valley – East Kern County Water Agency (AVEK), and Los Angeles Department of Water and Power – Water Services (LADWP-WS). Both transmission and distribution lines are included because water is defined as high risk, therefore all water pipes are considered to have significant impacts. Wholesale water agency AVEK is impacted and crucial to cities water supply. Utility sizes vary from 8-inch to 48-inch diameter.

A potential impact to 48" MWD water conveyance crosses at the beginning of proposed cut and cover in San Fernando Boulevard. Further investigation of elevation of 48" MWD water conveyance will need to confirm if it can be protected in place.

The existing 16" LADWP water at San Fernando Road will need to be verified if can be accommodated for the proposed cut and cover.

Reference Table 5-4 for the total count of impacted water lines. For more detailed information, see the utility logs in Appendix B.

Table 5-4 Water Line Impacts

	E2
Water Lines	108

5.2.4 Underground Power Utilities

Impacted underground power identified from City of Los Angeles substructure map lies at Tuxford Street and San Fernando Boulevard under I-5 Freeway. The owner of the impacted facility is Los Angeles Water and Power – Power Services. The voltage rating is not verified; however, conduit counts of the underground power is noted on substructure map.

Reference Table 5-5 for the total count of underground power lines. For more detailed information, see the utility logs in Appendix B.

Table 5-5 Underground Power Line Impacts

	E2
UG Power lines	2

5.3 Major Utilities

Based on the utility research conducted, two types of major utilities were identified along the E2 Alignment Alternative: overhead power and trunk sanitary sewers.

5.3.1 Overhead Power Facilities

The existing overhead power transmission/sub-transmission lines crossing the proposed HSR alignment and road realignments have been identified as having potential impacts by the project. These overhead lines are 66kV facility that belongs to SCE.

Table 5-6 depicts the total count of impacted power transmissions. For more detail information, see the utility logs in Appendix B.

Table 5-6 Overhead Power Line Impacts

	E2
Power OH Lines	48

5.3.2 Sanitary Sewer Transmission and Collection lines

Similarly, several sanitary sewers will be impacted by the footprint of: the proposed HSR alignments, the proposed Palmdale Station, the proposed Burbank Station, the associated roadway network realignments, and differential grading. These trunk sewers, 12-inch diameter and greater, are owned and operated by the City of Palmdale Sanitary Maintenance District. Sanitary Sewers at the cut and cover boundaries within proposed Burbank Station will require realignment and change to HDPE material.

Reference Table 5-7 for total count of impacted major sewer lines. For more detail information, see the utility logs in Appendix B.

Table 5-7 Sanitary Line Impacts

	E2
San Sewer Lines	54

5.4 Other Significant Utility Related Facilities

Based on the utility research conducted, facilities crucial for the operation of the city’s infrastructure are affected by the proposed HSR construction. These facilities are power receiving station, potable water trunk line feeder and control structure, and whole sale water supply connection. The impacted facilities are recommended for an advance relocation to continue uninterrupted services to the city.

5.4.1 SCG Control Structure

The proposed HSR alignment partially impacts the existing SCG Control Structure 550 feet east of East Avenue S and East 10 Street intersection in Palmdale. The proposed East Avenue S realignment swerves north offset to the existing East Avenue S between East 5th Street and Windy Creek Street. The proposed northerly edge of sidewalk encroaches up to 25 feet from SCG’s existing property line with potential impacts to SCG’s control station appurtenances.

5.4.2 Palmdale Ditch Enclosure

The proposed HSR alignment impacts the existing Palmdale Water District Ditch Enclosure. The 48-inch RCP ditch enclosure conveys water shed run-off from Little Rock Reservoir to Lake Palmdale.

5.5 Permitting

All impacted utilities will be relocated within the project footprint, as indicated in the Composite Utility Plans package. Based on our investigation with various agencies, for moving the project forward to the construction, various utility agency permits or approvals shall be required. Completion of permit applications will be part of a subsequent design phase. Table 5-8 below summarizes some of the major agency's permits or approvals required.

Table 5-8 Permits or Approvals for E2 Alignment Alternative

Agency	Permits and Approval	Comments
Authority	Refer to Caltrans Encroachment Permits (Form TR-0100): 1.Encroachment Permit Fee Calculation Sheet 2. Fee Schedule for type of encroachment and access. 3.Encroachment Permit Check List	
SCRRRA (Metrolink)	1.Written Statement of reasoning , location and duration for Encroachment 2.Application for Encroachment Permits 3. Plan and Profile drawings 4.Schedule 5.Existing License Agreement	
City of Palmdale	Encroachment Permits W/Traffic Control Plan (To Building and Safety)	
Private Parcel (within Palmdale)	Easement Agreement (To City of Palmdale Engineering)	
Los Angeles County Public Works (Land Development Division)	Pre-Application with 4 set of plan	Unincorporated Areas within Los Angeles County.
City of Los Angeles	1. Construction "A" Permit (water and gas meter) 2. Construction "B" Permit (installation of sewer and storm drains) 3. Excavation "U" Permits (trenching and shoring)	
CALTRANS	Encroachment Permits (refer to CALTRANS utility permit Codes)	
City of Burbank	1. Excavation/Construction Permit 2. Utility Excavation Permit	

5.6 Operation and Maintenance

The facility relocation concept has been incorporated with the consideration to maintain undisrupted operation to the Authority and its ancillaries. In order to provide a safe environment for operation of the HSR project, minimize the disruption to the traveling public, and assure safety of Authority personnel and patrons during its operations, all proposed utility maintenance access, vault, and appurtenances will be located outside of the Authority's right of way.

6 REFERENCES

The Center for Land Use Interpretation Website: <http://www.clui.org/section/ladwp-power>

CHSTP In-Progress Draft Technical Memorandum Designer's Responsibilities and Utility Requirements for 15% Design Level TM 2.7.4, November 20, 2008.

State of California Public Utilities Commission, General Order No. 95 (Overhead Electric Line Construction): <http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M146/K646/146646565.pdf>,
January 2015.

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APPENDIX A: UTILITY CONTACT INFORMATION

E2 Alignment – Utility Contact Information

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
1	SENER	Los Angeles Department of Water and Power (LADWP)	Charles Dunn	Engineer of Underground Structures Group	111 N. Hope Street, Room 1031	Los Angeles, CA 90012	(213) 367-2715	Charles.Dunn@LADWP.Com
2	SENER	Los Angeles Department of Public Works (LADPW)	Daryll Chenoweth	Utility Coordination Unit, Head	900 S.Fremont Ave	Alhambra, CA 91803	(626) 458-3109	dchenowe@dpw.lacounty.gov
3	SENER	City of Palmdale	Jim Deyo	Department of Public Works	38250 Sierra Hwy	Palmdale, CA 93550	(661) 267-5347	jdeyo@cityofpalmdale.org
4	SENER	Palmdale Water District	Mike West	Engineering Design Technician	2029 E Avenue Q	Palmdale, CA 93550	(661)-947-1022	mwest@paldalewater.org
5	SENER	Southern California Gas (SCG) - Transmission	Chris Coria Estafania Sanchez Rosalyn Squires Carlos Gaeta		9400 Oakdale Ave	Chatsworth, CA 91311	818-701-3253 (Chris Coria) 818) 701-6679 (Rosalyn Squires) 818) 701-3474 (Carlos)	Ccoria@semprautilities.com cagaeta@semprautilities.com rsquires@semprautilities.com
6	SENER	AT&T Distribution	Mary Ramos		600 East Green St	Pasadena, CA 91101	(510) 645-2929	ma2797@att.com
7	SENER	AT&T Transmission (Telephone)	Joseph Forkert Walter Westriuk		22311 Brookhurst St, Suite 203	Huntington Beach, CA 92646	(714) 963-7964	joef@forkertengineering.com
8	SENER	AT&T Transmission	Maria Guzman		420 S Grand Ave, RM 707	Los Angeles, CA 90071	(213) 787-9996	mg1371@att.com
9	SENER	Time Warner Cable (Charter)	Dave Bell		3041 E. Mira Loma Ave	Anaheim, CA 92806	(714) 591-4878	dave.bell@charter.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
10	SENER	Time Warner Cable (Telephone)	Dianell Caamano		41551 10th St West	Palmdale, CA 93551	(661) 259-6909	dianell.caamano@twcable.com
11	SENER	State of California, Department of Water Resources	Jaime Desantiago	Project Engineer	P.O. Box 1187	Pearblossom, CA 93553	(661) 994-8574	jdes@water.ca.gov
12	SENER	Los Angeles County Sanitary District (LACSD)	Koesen Lipock	Engineer	1955 Workman Mill Road	Whittier, CA 90601	(562) 908-4288	Klipock@lacsds.org
13	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	Sam Queszada	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-5100	squeszada@dpw.lacounty.gov
14	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	Hank Fung	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-3980	hfung@dpw.lacounty.gov
15	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	Jeff Chow	Engineer	1000 S Fremont Ave	Alhambra, CA 91803	(626) 300-4753	jchow@dpw.lacounty.gov
16	SENER	Los Angeles County Water Works	Jason Kitto	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 300-3337	jkitto@dpw.lacounty.gov
17	SENER	Newhall County Water	Josh Jenkins	Engineer	PO Box 220970	Newhall, CA 91322	(661) 259-3610	jjenkins@ncwd.org
18	SENER	Air Touch Cellular (Telephone)	Matthew Kang	Engineer	10640 Sepulveda Blvd, Ste 1	Mission Hills, CA 91345	(818) 898-2352	matthew.kang@cableneg.com
19	SENER	Metropolitan Water District	Shoreh Zareh	Engineer	700 N Alameda St	Los Angeles, CA 90012	(213) 217-7474	szareh@mwdd20.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
20	SENER	Plains All American Pipeline (Oil)	Becky Sitton	Engineer	5900 Cherry Ave	Long Beach, CA 90805	(562) 728-2817	bsitton@paalp.com
21	SENER	T-Mobile (Telephone)	Gregg Lake	Engineer	7543 Woodley Ave, Suite 201	Van Nuys, CA 91406	(818) 840-0808	glake@synergy.cc
22	SENER	XO Communications (Telephone) - Los Angeles	Matt Bergine	Engineer	1924 Deere Ave	Santa Ana, CA 92705	(949) 417-7841	matt.bergine@xo.com
23	SENER	Southern California Gas (SCG) - Distribution	Timothy Bruce	Engineer	9400 Oakdale Ave,	Chatsworth, CA 91311.	(818) 701-3335	tbruce@semprautilities.com
24	SENER	Level 3 Communications (Telephone)	Felix Vigil		818 W 7th St, Suite 700	Los Angeles, CA 90017	(213) 929-2126	felix.vigil@level3.com
25	SENER	Southern California Edison (SCE) - Overhead Power Transmission	Kim Gurule		14799 Chestnut St	Westminster, CA 92683	(714) 796-9932	maprequests@sce.com
26	SENER	Southern California Edison (SCE) - Telecom	Tommy Savage		501 S Marengo Ave	Alhambra, CA 91802	(626) 308-6186	tommy.savage@sce.com

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APPENDIX B: HIGH RISK AND MAJOR UTILITY INFORMATION LOG
E2 Alignment – Utility Information Log – (High Risk & Major Utility)

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
1	SENER	SO CAL GAS	E2	UT-C4001-PLM	102+50	Sierra Hwy/E Ave O	NATURAL GAS	10" H SL	PSI	715'		TO BE RELOCATED
2	SENER	SO CAL GAS	E2	UT-C4002-PLM, UT-C4003-PLM,	122+50 to 156+35	Sierra Hwy/Lockheed Way	NATURAL GAS	4" PA	PSI	4583'		TO BE REMOVED
3	SENER	SO CAL GAS	E2	UT-C4002-PLM	129+16	Lockheed Way	NATURAL GAS	3" PA	PSI	484'		TO BE REMOVED
4	SENER	CITY OF PALMDALE	E2	UT-C4002-PLM	129+20	Lockheed Way	SEWER	18" VCP	CFS	1704'		TO BE RELOCATED
5	SENER	CITY OF PALMDALE	E2	UT-C4002-PLM	129+50	Lockheed Way	SEWER	12" VCP	CFS	1738'		TO BE REMOVED
6	SENER	LACWD	E2	UT-C4002-PLM	129+80	Lockheed Way	WATER	20" DIP	PSI	1015'		TO BE RELOCATED
7	SENER	SCE	E2	UT-C4003-PLM, UT-C4502-PLM, UT-C4503-PLM, UT-C4504-PLM	153+10	Sierra Hwy/Rancho Vista Blvd	OH POWER	12/66 kV	kV	5360'		TO BE RELOCATED
8	SENER	PALMDALE WD	E2	UT-C4003-PLM, UT-C4503-PLM	156+50	Sierra Hwy/Rancho Vista Blvd	WATER	12" STL	PSI	2750'		TO BE RELOCATED
9	SENER	PALMDALE WD	E2	UT-C4004-PLM	175+20 to 198+00	Sierra Hwy/5th St	WATER	12" ACP	PSI	943'		TO BE RELOCATED
10	SENER	PALMDALE WD	E2	UT-C4004-PLM, UT-C4005-PLM	190+00 to 196+00	Sierra Hwy	WATER	8" DIP	PSI	747'		TO BE REMOVED
11	SENER	LACSD	E2	UT-C4004-PLM	191+70	Sierra Hwy	SEWER	42" VCP	PSI	1370'		TO BE RELOCATED
12	SENER	PALMDALE WD	E2	UT-C4005-PLM	196+50 to 210+00	Sierra Hwy/5th St	WATER	12" DIP	PSI	2037'		TO BE RELOCATED
13	SENER	PALMDALE WD	E2	UT-C4005-PLM	202+50	Clock Tower Plaza Dr/Ave P-14	WATER	8" DIP	PSI	710'		TO BE REMOVED
14	SENER	SCE	E2	UT-C4005-PLM	208+50	E Ave O-8/ Sierra Hwy	OH POWER	66 KV	KV	1000'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
15	SENER	SCE	E2	UT-C4005-PLM	208+50	Sierra Hwy/Ave Q	OH POWER	66 kV	kV	2846'		TO BE RELOCATED
16	SENER	LACSD	E2	UT-C4005-PLM	209+90	5th St/Ave Q/Sierra Hwy	SEWER	15" VCP	CFS	1220'		PROPOSED JACK AND BORE WITH CASING
17	SENER	LACSD	E2	UT-C4005-PLM	209+90	5th St/ Ave Q/Sierra Hwy	SEWER	18" VCP	CFS	1184'		PROPOSED JACK AND BORE WITH CASING
18	SENER	PALMDALE WD	E2	UT-C4005-PLM	210+20	5th St/ Ave Q/Sierra Hwy	WATER	12" DIP	PSI	1800'		RELOCATED W/JACK AND BORE
19	SENER	PALMDALE WD	E2	UT-C4005-PLM		Sierra Hwy	WATER	12" ACP	PSI			PROTECT IN PLACE
20	SENER	CITY OF PALMDALE	E2	UT-C4005-PLM	210+00 to 240+50	Sierra Hwy	SEWER	10" VCP	CFS	3090'		TO BE REMOVED
21	SENER	SO CAL GAS	E2	UT-C4005-PLM	209+80	AVE Q/Sierra Hwy	NATURAL GAS	6"	PSI	1725'		RELOCATE PROPOSED JACK AND BORE WITH CASING
22	SENER	PALMDALE WD	E2	UT-C4006-PLM	220+00 to 245+00	Sierra Hwy	WATER	12" STL	PSI	2400'		TO BE REMOVED
23	SENER	CITY OF PALMDALE	E2	UT-C4006-PLM, UT-C4004-PLM, UT-C4506-PLM	240+60	Ave 9	SEWER	8" VCP	CFS	3041'		TO BE RELOCATED
24	SENER	PALMDALE WD	E2	UT-C4006-PLM	240+50	6th St/Ave Q-9	WATER	8" DIP	PSI	190'		TO BE RELOCATED
25	SENER	PALMDALE WD	E2	UT-C4006-PLM	238+50	6 th St	WATER	12" DIP	PSI	2515'		TO BE RELOCATED
26	SENER	PALMDALE WD	E2	UT-C4006-PLM, UT-C4507-PLM	237+90	Palmdale Blvd	WATER	12" PVC	PSI	1393'		TO BE REMOVED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
27	SENER	PALMDALE WD	E2	UT-C4006-PLM	237+50 to 240+00	Palmdale Blvd/Sierra Hwy	WATER	16" DIP	PSI	205'		TO BE RELOCATED
28	SENER	PALMDALE WD	E2	UT-C4007-PLM, UT-C4509-PLM, UT-C4510-PLM	245+00 to 270+00	6 th St	WATER	12" DIP	PSI	2790'		TO BE RELOCATED
29	SENER	SCE	E2	UT-C4007-PLM, UT-C4509-PLM, UT-C4510-PLM	265+60	East Ave R	OH POWER	66 kV	kV	3166'		TO BE RELOCATED
30	SENER	PALMDALE WD	E2	UT-C4007-PLM	245+00 to 270+00	6 th St	WATER	12" PVC	PSI	848'		TO BE RELOCATED
31	SENER	PALMDALE WD	E2	UT-C4007-PLM	265+50	East Ave	WATER	12" DIP	PSI	1262'		TO BE RELOCATED
32	SENER	CITY OF PALMDALE	E2	UT-C4007-PLM	245+00 to 270+00	6 th St	SEWER	8" VCP	CFS	2225'		TO BE RELOCATED
33	SENER	PALMDALE WD	E2	UT-C4006-PLM		AVE Q E PALMDALE BLVD	WATER	12"		4703'		TO BE RELOCATED
34	SENER	AT&T	E2	UT-C4005-PLM, UT-C4002-PLM	195+00 to 220+00	SIERRA HWY	FIBER OPTIC	4-1.5"		4012'		PROTECT IN PLACE
35	SENER	AT&T	E2	UT-C4006-PLM	220+00 to 245+00	SIERRA HWY	FIBER OPTIC	4-1.5"		3012'		PROTECT IN PLACE
36	SENER	PALMDALE WD	E2	UT-C4501-PLM, UT-C4502-PLM	156+50	3rd St E/Rancho Vista Blvd/Fairway Dr	WATER	14" STL	PSI			PROTECT IN PLACE
37	SENER	PALMDALE WD	E2	UT-C4508-PLM,		East Ave R	WATER	12" DIP	PSI			PROTECT IN PLACE
38	SENER	SCE	E2	UT-C4508-PLM,		East Ave R	OH POWER	66 kV	kV			PROTECT IN PLACE
39	SENER	PALMDALE WD	E2	UT-C4505-PLM		Technology Dr/8th St	WATER	12" DIP	PSI			PROTECT IN PLACE
40	SENER	SCE	E2	UT-C4511-PLM	110+00 to 130+00	AVE Q	OH POWER	66 kV	kV	2000'		TO BE RELOCATED
41	SENER	LACSD	E2	UT-C4005-PLM	210+00	Ave Q/Sierra Hwy W of Cl	SEWER	10"	CFS	1200'		TO BE RELOCATED
42	SENER	LACSD	E2	UT-C4005-PLM	145+00	Ave Q/Sierra Hwy E of CL	SEWER	8" VCP	CFS	500'		TO BE REMOVED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
43	SENER	AT&T	E2	UT-C4001-PLM, UT-C4003-PLM	100+00 to 145+00	Sierra Hwy	FIBER OPTIC	4-1.5"		4500'		PROTECT IN PLACE
44	SENER	AT&T	E2	UT-C4001-PLM,	100+00 to 145+00	Sierra Hwy	FIBER OPTIC	UNKN		4500'		PROTECT IN PLACE
45	SENER	CITY OF PALMDA LE	E2	UT-C4002-PLM	122+00 to 145+00	6th St/Ave Q/Sierra Hwy	SEWER	15" VCP	CFS	2300'		TO BE REMOVED
46	SENER	PALMDA LE WD	E2	UT-C4002-PLM	125+00 to 134+00	Sierra Hwy/Ave Q/Palmdale Blvd	WATER	16" DIP	PSI	900'		TO BE REMOVED
47	SENER	SO CAL GAS	E2	UT-C4002-PLM	120+00 to 130+00	Sierra Hwy/E Ave O	NATURAL GAS	10" H SL	PSI	1000'		PROTECT IN PLACE
48	SENER	SCE	E2	UT-C4003-PLM	153+00	Sierra Highway / Rancho Vista Blvd	UG POWER	12/66 kV	kV	591'		TO BE RELOCATED
49	SENER	TWC	E2	UT-C4003-PLM	156+75	Rancho Vista Blvd	TELE	6-2"		1303'		TO BE RELOCATED
50	SENER	LACSD	E2	UT-C4005-PLM	210+00	Sierra Hwy/E Ave O-8	SEWER	18" VCP	CFS	1704'		PROTECT IN PLACE
51	SENER	CITY OF PALMDA LE	E1	UT-C4005-PLM	210+00 to	Sierra Hwy	SEWER	8"VCP				TO BE RELOCATED
52	SENER	PALMDA LE WD	E2	UT-C4005-PLM UT-C4006-PLM	146+00	Sierra Hwy/Ave Q/Palmdale Blvd	WATER	4"	PSI	3000'		TO BE REMOVED
53	SENER	CITY OF PALMDA LE	E2	UT-C4006-PLM	220+00 to 245+00	6 th St E/ E Palmdale Blvd	SEWER	10"	PSI	5000'		TO BE REMOVED
54	SENER	CITY OF PALMDA LE	E2	UT-C4006-PLM	240+50	6 TH St E/ E Palmdale	SEWER	8"	PSI	250'		TO BE RELOCATED
55	SENER	LACSD	E2	UT-C4006-PLM	238+00	E Palmdale Blvd	SEWER	8"	PSI	400'		TO BE REMOVED
56	SENER	CITY OF PALMDA LE	E2	UT-C4006-PLM	230+20	Ave Q Six/Fifth St E	WATER	6"	PSI	900'		TO BE REMOVED
57	SENER	CITY OF PALMDA LE	E2	UT-C4006-PLM	230+20	AVE 9	SEWER	8"	PSI	300'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
58	SENER	PALMDALE WD	E2	UT-C4006-PLM	221+00	Ave Q Three	WATER	10"	PSI	580'		TO BE REMOVED
59	SENER	AT&T	E2	UT-C4007-PLM	245+00 to 270+00	Sierra Hwy	FIBER	4-1.5"	PSI	3500'		PROTECT IN PLACE
60	SENER	AT&T	E2	UT-C4007-PLM	245+00 to 270+00	Sierra Hwy	FIBER OPTIC	4-1.5"		3500'		TO BE RELOCATED
61	SENER	PALMDALE WD	E2	UT-C4007-PLM	249+80	Sierra Hwy	WATER	8"	PSI	190'		REMOVE/ RECONNECT
62	SENER	CITY OF PALMDALE	E2	UT-C4007-PLM	255+00	Sierra Hwy	SEWER	8"	PSI	150'		REMOVE/ RECONNECT
63	SENER	PALMDALE WD	E2	UT-C4007-PLM	255+00	Sierra Hwy	WATER	8"	PSI	150'		REMOVE/ RECONNECT
64	SENER	CITY OF PALMDALE	E2	UT-C4007-PLM	257+20	Sierra Hwy	SEWER	8"	PSI	500'		REMOVE/ RECONNECT
65	SENER	CITY OF PALMDALE	E2	UT-C4007-PLM	258+80	Sierra Hwy	SEWER	8"	PSI	650'		REMOVE/ RECONNECT
66	SENER	PALMDALE WD	E2	UT-C4007-PLM	258+80	Sierra Hwy	WATER	8"	PSI	400'		REMOVE/ RECONNECT
67	SENER	CITY OF PALMDALE	E2	UT-C4007-PLM	263+50	Sierra Hwy	SEWER	8"	PSI	600'		TO BE REMOVED
68	SENER	PALMDALE WD	E2	UT-C4007-PLM	264+00	East Ave R	WATER	8"	PSI	3000'		TO BE RELOCATED
69	SENER	CITY OF PALMDALE	E2	UT-C4007-PLM	265+00	Sierra Hwy	SEWER	8"	PSI	300'		TO BE RELOCATED
70	SENER	CITY OF PALMDALE	E2	UT-C4007-PLM	264+00	Sierra Hwy	SEWER	8"	PSI	300'		PROPOSED
71	SENER	PALMDALE WD	E2	UT-C4007-PLM	259+00	Sierra Hwy	WATER	8"	PSI	390'		REMOVE/RECONNECT
72	SENER	PALMDALE WD	E2	UT-C4501-PLM		Rancho Vista Blvd	WATER		PSI	1100'		PROTECT IN PLACE
73	SENER	CITY OF PALMDALE	E2	UT-C4501-PLM		Rancho Vista Blvd	SEWER		CFS	1850'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
74	SENER	SCE	E2	UT-C4501-PLM		Rancho Vista Blvd	OH POWER	12/66 KV	KV	3000'		PROTECT IN PLACE
75	SENER	TWC	E2	UT-C4502-PLM		Rancho Vista Blvd	TELECOM	6-2"	PSI	2440'		PROTECT IN PLACE
76	SENER	UNKNOWN	E2	UT-C4502-PLM		Third ST	SEWER	UNKN OWN	PSI	1310'		PROTECT IN PLACE
77	SENER	CITY OF PALMDALE	E2	UT-C4503-PLM		Rancho Vista Blvd	SEWER	15"	PSI	2300'		PROTECT IN PLACE
78	SENER	PALMDALE WD	E2	UT-C4503-PLM		Rancho Vista Blvd	WATER	12"	PSI	2000'		PROTECT IN PLACE
79	SENER	TWC	E2	UT-C4503-PLM		Rancho Vista Blvd	TELE	6-2"	PSI	1500'		PROTECT IN PLACE
80	SENER	TWC	E2	UT-C4503-PLM		Rancho Vista Blvd	TELE	6-2'	PSI	50'		TO BE RELOCATED
81	SENER	CITY OF PALMDALE	E2	UT-C4504-PLM		Rancho Vista Blvd	SEWER	15"	CFS	1275'		PROTECT IN PLACE
82	SENER	LACSD	E2	UT-C4505-PLM		Technology Dr	SEWER	42"	PSI	3000'		PROTECT IN PLACE
83	SENER	CITY OF PALMDALE	E2	UT-C4507-PLM		E Palmdale Blvd/Tenth St	SEWER	8"	CFS	980'		TO BE REMOVED
84	SENER	CITY OF PALMDALE	E2	UT-C4507-PLM		E Palmdale Blvd/Tenth St	SEWER	8"	CFS	1000'		TO BE RELOCATED
85	SENER	CITY OF PALMDALE	E2	UT-C4508-PLM		East Ave R	SEWER	10"	PSI	660'		PROTECT IN PLACE
86	SENER	CITY OF PALMDALE	E2	UT-C4509-PLM		East Ave R	SEWER	10"	PSI	2000'		PROTECT IN PLACE
87	SENER	CITY OF PALMDALE	E2	UT-C4510-PLM		AVE R	SEWER	8"	PSI	620'		TO BE RELOCATED
88	SENER	CITY OF PALMDALE	E2	UT-C4510-PLM		AVE R	SEWER	8"	PSI	280'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
89	SENER	SCE	E2	UT-C4512-PLM		AVE Q	OH POWER	66 KV	KV	150'		TO BE RELOCATED
90	SENER	LACSD	E2	UT-C4006-PLM	224+00 to 227+00	Ave Q/ 5 th St	SEWER	8"	PSI	750'		TO BE REMOVED
91	SENER	UNKNOW N	E2	UT-C4006-PLM	237+80	Palmdale Blvd	UG ELECTRIC	UNKN OWN	PSI	700'		TO BE RELOCATED
92	SENER	PALMDA LE WD	E1	UT-C4006-PLM	237+80	Palmdale Blvd	WATER	12" STL	PSI			TO BE REMOVED
93	SENER	AT&T	E2	UT-C4002-PLM	120+00 to 145+00	Sierra Highway	FIBER OPTIC	UNKN OWN	PSI	1600'		PROTECT IN PLACE
94	SENER	CITY OF PALMDA LE	E2	UT-C4002-PLM	127+00 to 134+00	Sierra Highway	SEWER	15"	PSI	450'		TO BE REMOVED
95	SENER	AT&T	E2	UT-C4002-PLM	129+00	Lockheed Way	FIBER OPTIC	4-1.5"	KV	1000'		TO BE RELOCATED
96	SENER	AT&T	E2	UT-C4004-PLM	175+00	Sierra Highway	FIBER OPTIC	4-1.5'	KV	1000'		TO BE RELOCATED
97	SENER	PALMDA LE WD	E2	UT-C4005-PLM	210+00 to 220+00	Sierra Hwy	WATER	12"	PSI	1500'		TO BE REMOVED
98	SENER	SCG	E2	UT-C4502-PLM		Rancho Vista Blvd	GAS	4"	PSI	200'		TO BE REMOVED
99	SENER	PALMDA LE WD	E2	UT-C4506-PLM		Palmdale Blvd	WATER	12"	PSI	1100'		PROTECT IN PLACE
100	SENER	PALMDA LE WD	E2	UT-C4507-PLM		Palmdale Blvd	WATER	12"	PSI	900'		TO BE RELOCATED
101	SENER	AT&T	E2	UT-C4008-E2	270+00 to 285+00	Sierra Hwy / Ave R-8	FIBER OPTIC	4-1.5"		1500'		PROTECT IN PLACE
102	SENER	PALMDA LE WD	E2	UT-C4008-E2	291+00 To 301+52	Sierra Hwy/Ave R-8	WATER	18" STL	PSI	600'		PROTECT IN PLACE
103	SENER	PALMDA LE WD	E2	UT-C4008-E2	291+00 To 301+62	Sierra Hwy/Ave R-8	WATER	16" STL	PSI	500'		PROTECT IN PLACE
104	SENER	CITY OF PALMDA LE	E2	UT-C4008-E2	270+00 to 275+00	Ave R/6th Str E south	SEWER	8" VCP	CFS	2225'		TO BE RELOCATED
105	SENER	PALMDA LE WD	E2	UT-C4008-E2	264+00 to 276+00	Ave R/6th Str E south	WATER	12" DIP	PSI	1262'		TO BE RELOCATED
106	SENER	PALMDA LE WD	E2	UT-C4008-E2	290+62	6th St E/Ave R-8/Sierra Hwy	WATER	12" STL	PSI	582'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
107	SENER	US SPRINT	E2	UT-C4008-E2	284+30 to 295+00	Sierra Hwy / Ave R-8	FIBER OPTIC	UNKN OWN		1140'		PROTECT IN PLACE
108	SENER	PALMDALE WD	E2	UT-C4008-E2	291+40 to 295+00	Sierra Hwy / Ave R-8	WATER	8" (ABAN)	PSI	360'		PROTECT IN PLACE
109	SENER	PALMDALE WD	E2	UT-C4009-E2	301+62 to 318+12	Sierra Hwy, B/W E Ave R11 and Harold Cedar Ave	WATER	16" DIP	PSI	1670'		TO BE RELOCATED
110	SENER	PALMDALE WD	E2	UT-C4009-E2, UT-C4513-E2	317+76	E Ave S/E 10 th St	WATER	16" STL	PSI	824'		TO BE RELOCATED
111	SENER	SCG	E2	UT-C4512-E2 UT-C4009-E2 UT-C4513-E2	307+45 to 317+28	E 10 th St/E Ave S	NATURAL GAS	4" PE	PSI	1628'		TO BE RELOCATED
112	SENER	SCG	E2	UT-C4511-E2 UT-C4009-E2	317+32	E Ave S	NATURAL GAS	4" PE	PSI	636'		TO BE RELOCATED
113	SENER	SPRINT	E2	UT-C4009-E2 UT-C4010-E2 UT-C4011-E2	299+57 to 363+57	Sierra Hwy/1565' north of E Ave S	FIBER OPTICS	4"		6388'		TO BE RELOCATED
114	SENER	PALMDALE WD	E2	UT-C4009-E2	318+30	Sierra Hwy / Ave S	WATER	20"	PSI	1900'		TO BE RELOCATED
115	SENER	PALMDALE WD	E2	UT-C4009-E2	301+52 to 315+34	Sierra Hwy/E Ave S	WATER	18" DIP	PSI	2242'		TO BE RELOCATED
116	SENER	PALMDALE WD	E2	UT-C4009-E2	317+75	Sierra Hwy / Ave S	WATER	18" (ABAN)	PSI	1900'		TO BE REMOVED
117	SENER	PALMDALE WD	E2	UT-C4009-E2	317+60	E Ave S/Sierra Hwy	WATER	42" SCCP	PSI	867'		TO BE RELOCATED
118	SENER	PALMDALE WD	E2	UT-C4009-E2	317+73	E Ave S/Sierra Hwy	WATER	12"	PSI	469'		TO BE RELOCATED
119	SENER	SCG	E2	UT-C4009-E2 UT-C4010-E2	317+28 to 320+85	Sierra Hwy/E Ave S	NATURAL GAS	4" PD	PSI	571'		TO BE REMOVED
120	SENER	CITY OF PALMDALE	E2	UT-C4009-E2 UT-C4513-E2	317+88	E Ave S	SEWER	8" VCP	CFS	330'		TO BE REMOVED
121	SENER	PALMDALE WD	E2	UT-C4512-E2 UT-C4009-E2	308+96 To 319+08	E 10 th St/E Ave S	WATER	24"	PSI	1285'		TO BE RELOCATED
122	SENER	PALMDALE WD	E2	UT-C4009-E2, UT-C4513-E2	317+35	E Ave S/E 10 th St	WATER	24" STL	PSI	1054'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
123	SENER	PALMDALE WD	E2	UT-C4009-E2 UT-C4010-E2 UT-C4011-E2	318+15 to 364+11	Sierra Hwy	WATER	24" STL.	PSI	4727'		TO BE RELOCATED
124	SENER	SCG	E2	UT-C4512-E2 UT-C4009-E2, UT-C4513-E2	307+19 To 317+28	E 10 th St/E Ave S	NATURAL GAS	10" H	PSI	1672'		TO BE RELOCATED
125	SENER	AT&T	E2	UT-C4512-E2 UT-C4009-E2	309+00 to 317+42	Sierra Hwy/E Ave S	TELECOM	18 DUCT		1022'		TO BE RELOCATED
126	SENER	LACSD	E2	UT-C4512-E2, UT-C4009-E2	306+11 to 317+00	E 10 th St	SEWER	10" VCP	CFS	1293'		TO BE RELOCAED
127	SENER	SCG	E2	UT-C4009-E2, UT-C4511-E2, UT-C4513-E2	317+67	E Ave S/Sierra Hwy	NATURAL GAS	30"	PSI	2401'		TO BE RELOCATED
128	SENER	SCG	E2	UT-C4009-E2 UT-C4511-E2 UT-C4513-E2	317+91	E Ave S/Sierra Hwy	NATURAL GAS	30"	PSI	2417'		TO BE RELOCATED
129	SENER	PALMDALE WD	E2	UT-C4009-E2	314+60 to 318+50	Sierra Hwy / Ave S	WATER	48"	PSI	490'		TO BE RELOCATED
130	SENER	PALMDALE WD	E2	UT-C4009-E2	314+60 to 318+50	Sierra Hwy / Ave S	WATER	30"	PSI	500'		TO BE RELOCATED
131	SENER	PALMDALE WD	E2	UT-C4009-E2	314+60 to 318+50	Sierra Hwy / Ave S	WATER	36"	PSI	500'		TO BE RELOCATED
132	SENER	PALMDALE WD	E2	UT-C4009-E2 UT-C4010-E2 UT-C4011-E2	319+25 to 364+00	Sierra Hwy	WATER	6" STL.	PSI	4612'		TO BE RELOCATED
133	SENER	SCE	E2	UT-C4009-E2	318+15	Sierra Hwy / Ave S / Tenth St	OH POWER	12 KV	kV	1870'		TO BE RELOCATED
134	SENER	PALMDALE WD	E2	UT-C4009-E2	295+00 to 296+72	Sierra Hwy / E. Avenue R11	WATER	8" (ABAN)	PSI	172'		PROTECT IN PLACE
135	SENER	AT&T	E2	UT-C4009-E2	310+00 to 317+00	Ave S / Tenth St	TELEPHONE	1 DUCT		1000'		TO BE RELOCATED
136	SENER	AT&T	E2	UT-C4009-E2 UT-C4010-E2	319+21 to 363+57	Sierra Hwy/E Ave S/E 10 th St	TELECOM	12 DUCT		5765'		TO BE RELOCATED
137	SENER	AT&T	E2	UT-C4009-E2	310+00 to 315+80	Sierra Hwy / Ave S / Tenth St	TELEPHONE	UNKN OWN		2350'		TO BE RELOCATED
138	SENER	SCE	E2	UT-C4010-E2 UT-C4011-E2	327+24 to 366+32	Sierra Hwy	OH POWER	12 kV	kV	4018'		TO BE RELOCATED
139	SENER	AT&T	E2	UT-C4011-E2	317+17	E Ave S/Sierra Hwy	TELEPHONE			638'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
140	SENER	PALMDALE WD	E2	UT-C4012-E2	374+33 to 389+45	Barrel Springs Rd Ditch	WATER	48" RCP	CFS	1499'		TO BE RELOCATED
141	SENER	PALMDALE WD	E2	UT-C4012-E2	376+81	Barrel Springs Rd	WATER	8" STL	PSI	422'		TO BE RELOCATED
142	SENER	PALMDALE WD	E2	UT-C4012-E2	377+36 to 379+15	Barrel Springs Rd/Metrolink Rail	WATER	8" STL	PSI	188'		TO BE RELOCATED
143	SENER	PALMDALE WD	E2	UT-C4012-E2	377+36 to 379+15	Barrel Springs Rd/Metrolink Rail	WATER	6" STL	PSI	175'		PROTECT IN PLACE
144		SCE	E1	UT-C4012-E1			OH POWER	12 kV	kV			PROTECT IN PLACE
145	SENER	SCE	E2	UT-C4012-E2	376+82	Barrel Springs Rd	OH POWER	12 kV	kV	389'		TO BE RELOCATED
146	SENER	PALMDALE WD	E2	UT-C4012-E2	370+00 to 395+00	Sierra Hwy / Harold Beach Ave	WATER	24"	PSI	3500'		PROTECT IN PLACE
147	SENER	U.S. SPRINT	E2	UT-C4012-E2	370+00 to 380+00	Sierra Hwy / Harold Beach Ave	FIBER OPTIC	4"		1060'		PROTECT IN PLACE
148	SENER	AT&T	E2	UT-C4012-E2	370+00 to 374+00	Sierra Hwy / Harold Beach Ave	TELEPHONE	UNKN OWN		400'		PROTECT IN PLACE
149	SENER	CA DWR	E2	UT-C4012-E2			AQUE-DUCT	N/A				RELOCATE BY OTHERS
150	SENER	SCE	E2	UT-C4013-E2	397+20	Rae Street	OH POWER	UNKN OWN	kV	400'		TO BE RELOCATED
151	SENER	CA DWR	E2	UT-C4013-E2			AQUE-DUCT	N/A				RELOCATE BY OTHERS
152	SENER	AVEK	E2	UT-C4016-E2 UT-C4017-E2	474+17 to 503+90	Sierra Hwy/Angeles Forest Hwy	WATER	20" DIP	PSI	2559'		TO BE RELOCATED
153	SENER	SCE	E2	UT-C4016-E2, UT-C4017-E2, UT-C4018-E2	483+26 to 535+84	Sierra Hwy/Angeles Forest Hwy	OH POWER	12 kV	kV	5651'		TO BE RELOCATED
154	SENER	UNKNOWN	E2	UT-C4016-E2, UT-C4017-E2	484+33 to 505+63	Sierra Hwy/Angeles Forest Hwy	FIBER OPTICS	UNKN OWN		2374'		TO BE RELOCATED
155	SENER	SCE	E2	UT-C4017-E2		Angeles Forest Hwy	OH POWER	500 KV	kV	2200'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
156	SENER	SCE	E2	UT-C4017-E2	517+29, 518+54	Angeles Forest Hwy	OH POWER	500 KV	kV	2200'		PROTECT IN PLACE
157	SENER	LA COUNTY WD	E2	UT-C4018-E2	534+71	Mountain Springs Rd/Sierra Hwy /Carson Mesa Rd	WATER	12" STL	PSI	846'		TO BE RELOCATED
158	SENER	AVEK	E2	UT-C4018-E2	534+00	Sierra Hwy	WATER	20"	PSI	200'		TO BE RELOCATED
159	SENER	AUTHORITY	E2	UT-C4018-E2	533+00 to 545+00	Sierra Hwy	TP POWER	230 KV	kV	1210'		PROPOSED
160	SENER	SCE	E2	UT-C4019-E2	560+00 to 563+00	Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	230 KV	kV	6000'		PROTECT IN PLACE
161	SENER	SCE	E2	UT-C4019-E2		Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	230 KV	kV			PROTECT IN PLACE
162	SENER	SCE	E2	UT-C4019-E2		Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	230 KV	kV			PROTECT IN PLACE
163	SENER	SCE	E2	UT-C4019-E2	564+00 to 567+00	Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	500 KV	kV	5000'		PROTECT IN PLACE
164	SENER	SCE	E2	UT-C4019-E2		Angeles Forest Hwy / W Carson Mesa Rd	OH POWER	500 KV	kV			PROTECT IN PLACE
165	SENER	AUTHORITY	E2	UT-C4019-E2	545+00 to 570+00	Angeles Forest Hwy / W Carson Mesa Rd	TP POWER	230 KV	kV	2500'		PROPOSED
166	SENER	SCE	E2	UT-C4020-E2	570+00 to 588+00	Rockyford Rd / Harbea Carson Mesa Rd	OH POWER	230 KV	kV	4000'		PROTECT IN PLACE
167	SENER	SCE	E2	UT-C4020-E2		Rockyford Rd / Harbea Carson Mesa Rd	OH POWER	230 KV	kV			PROTECT IN PLACE
168	SENER	SCE	E2	UT-C4020-E2		Rockyford Rd / Harbea Carson Mesa Rd	OH POWER	230 KV	kV			PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
169	SENER	SCE	E2	UT-C4020-E2	570+00 to 574+00	Rockyford Rd / Harbea Carson Mesa Rd	OH POWER	500 KV	kV	500'		PROTECT IN PLACE
170	SENER	AUTHORITY	E2	UT-C4020-E2	570+00 to 587+40	Rockyford Rd / Harbea Carson Mesa Rd	TP POWER	230 KV	kV	2770'		PROPOSED
171	SENER	AUTHORITY	E2	UT-C4021-E2	612+00 to 620+00		TP POWER	33 KV	kV	1250'		PROPOSED
172	SENER	SCE	E2	UT-C4021-E2	595+00 to 602+00		OH POWER	UNKN OWN	kV	800'		PROTECT IN PLACE
173	SENER	LACDPW	E2	UT-C4022-E2	630+80		WATER	8"	PSI	1240'		PROPOSED
174	SENER	AUTHORITY	E2	UT-C4022-E2	620+00 to 633+20		TP POWER	33 KV	kV	1322'		PROPOSED
175	SENER	LACDPW	E2	UT-C4026-E2	731+15 to 745+00	Aliso Canyon Rd	WATER	16"	PSI	2600'		PROPOSED
176	SENER	AUTHORITY	E2	UT-C4026-E2	730+90 to 745+00	Aliso Canyon Rd	TP POWER	33 KV	kV	1415'		PROPOSED
177	SENER	PALMDALE WD	E2	UT-C4511-E2	317+22	E Ave S/Sierra Hwy	WATER	20" STL	PSI	1628'		TO BE RELOCATED
178	SENER	PALMDALE WD	E2	UT-C4511-E2		Ave S / Fifth St	WATER	24"	PSI	175'		TO BE RELOCATED
179	SENER	AT&T	E2	UT-C4511-E2		Ave S / Fifth St	TELEPHONE	UNKN OWN		555'		TO BE RELOCATED
180	SENER	SCE	E2	UT-C4511-E2		Ave S / Fifth St	OH POWER	12 KV	kV	1075'		TO BE RELOCATED
181	SENER	PALMDALE WD	E2	UT-C4511-E2		Ave S / Fifth St	WATER	8"	PSI	400'		TO BE REMOVED
182	SENER	PALMDALE WD	E2	UT-C4512-E2		Tenth St / Ave R	WATER	12"	PSI	380'		TO BE RELOCATED
183	SENER	AT&T	E2	UT-C4512-E2		Tenth St / Ave R	TELEPHONE	UNKN OWN		160'		TO BE RELOCATED
184	SENER	AT&T	E2	UT-C4513-E2	318+00	E 10 TH St/E Ave S	TELECOM	6 DUCT		520'		TO BE RELOCATED
185	SENER	SCE	E2	UT-C4513-E2		Ave S / Monroe Place	OH POWER	12 KV	Kv	650'		TO BE RELOCATED
186	SENER	AT&T	E2	UT-C4513-E2		Ave S / Monroe Place	TELEPHONE	UNKN OWN		300'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
187	SENER	AT&T	E2	UT-C4513-E2		Ave S / Hamilton Place	TELEPHONE	1 DUCT		350'		TO BE RELOCATED
188	SENER	PALMDALE WD	E2	UT-C4515-E2		Sierra Hwy	WATER	20"	PSI	1300'		PROTECT IN PLACE
189	SENER	PALMDALE WD	E2	UT-C4515-E2		Sierra Hwy	WATER	24"	PSI	1300'		PROTECT IN PLACE
190	SENER	SCE	E2	UT-C4515-E2		Sierra Hwy	OH POWER	UNKNOWN	Kv	1800'		PROTECT IN PLACE
191	SENER	U.S. SPRINT	E2	UT-C4515-E2		Sierra Hwy	FIBER OPTIC	4"		1800'		PROTECT IN PLACE
192	SENER	AT&T	E2	UT-C4515-E2		Sierra Hwy	TELEPHONE	UNKNOWN		1800'		PROTECT IN PLACE
193	SENER	CA DWR	E2	UT-C4515-E2		Sierra Hwy	AQUE-DUCT	N/A		1000'		RELOCATE BY OTHERS
194	SENER	SCE	E2	UT-C4516-E2		Sierra Hwy	OH POWER	12 KV	Kv	800'		PROTECT IN PLACE
195	SENER	UNKNOWN	E2	UT-C4517-E2		Sierra Hwy / Mountain Springs Rd	FIBER OPTIC	UNKNOWN		300'		PROTECT IN PLACE
196	SENER	AVEK	E2	UT-C4517-E2		Sierra Hwy / Mountain Springs Rd	WATER	20"	PSI	150'		TO BE RELOCATED
197	SENER	LACDPW	E2	UT-C4517-E2		Sierra Hwy / Mountain Springs Rd	WATER	12"	PSI	110'		TO BE RELOCATED
198	SENER	SCE	E2	UT-C4518-E2		Foreston Dr / Angeles Forest Hwy	OH POWER	UNKNOWN	Kv	600'		PROTECT IN PLACE
199	SENER	SCE	E2	UT-C4518-E2		Foreston Dr / Angeles Forest Hwy	OH POWER	500 KV	Kv	1000'		PROTECT IN PLACE
200	SENER	SCE	E2	UT-C4518-E2		Foreston Dr / Angeles Forest Hwy	OH POWER	500 KV	Kv			PROTECT IN PLACE
201	SENER	SCE	E2	UT-C4518-E2		Foreston Dr / Angeles Forest Hwy	OH POWER	500 KV	Kv			PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
202	SENER	AUTHORITY	E2	UT-C4518-E2		Foreston Dr / Angeles Forest Hwy	TP POWER	230 KV	Kv	52'		PROPOSED
203	SENER	SCE	E2	UT-C4519-E2			OH POWER	UNKN OWN	Kv	400'		PROTECT IN PLACE
204	SENER	AUTHORITY	E2	UT-C4519-E2			TP POWER	33 KV	Kv	410'		PROPOSED
205	SENER	LACDPW	E2	UT-C4521-E2		Tortuga St	WATER	2X16"	PSI	2260'		PROPOSED
206	SENER	LACDPW	E2	UT-C4522-E2		Kentucky Springs Rd	WATER	2X16"	PSI	2575'		PROPOSED
207	SENER	LACDPW	E2	UT-C4523-E2		Kentucky Springs Rd / Calle Del Roja	WATER	2X16"	PSI	1980'		PROPOSED
208	SENER	LACDPW	E2	UT-C4526-E2		Tortuga St / Joshua Ave	WATER	2X16"	PSI	1790'		PROPOSED
209	SENER	LACDPW	E2	UT-C4527-E2		Malinta Ave / Horndean Ave	WATER	2X16"	PSI	30'		PROPOSED
210	SENER	LACDPW	E2	UT-C4536-E2		W Ave Y 8	WATER	12"	PSI	1970'		PROTECT IN PLACE
211	SENER	LACDPW	E2	UT-C4537-E2		Aliso Canyon Rd / W Ave Y 8	WATER	2X16"	PSI	1450'		PROPOSED
212	SENER	LACDPW	E2	UT-C4537-E2		Aliso Canyon Rd / W Ave Y 8	WATER	12"	PSI	600'		PROTECT IN PLACE
213	SENER	SCE	E2	UT-C4031-E2	849+50, 851+60, 854+30	Edison Rd	OH POWER	230 KV	Kv	1400'		PROTECT IN PLACE
214	SENER	SCE	E2	UT-C4031-E2		Edison Rd	OH POWER	230 KV	Kv			PROTECT IN PLACE
215	SENER	SCE	E2	UT-C4031-E2		Edison Rd	OH POWER	230 KV	Kv			PROTECT IN PLACE
216	SENER	AUTHORITY	E2	UT-C4031-E2	868+40		WATER	2X16"	PSI	190'		PROPOSED
217	SENER	AUTHORITY	E2	UT-C4031-E2	857+10	Edison Rd	TP POWER	33 KV	Kv	1250'		PROPOSED
218	SENER	AUTHORITY	E2	UT-C4032-E2	870+00	Arrastre Canyon Rd	WATER	2X16"	PSI	1060'		PROPOSED
219	SENER	AUTHORITY	E2	UT-C4062-E2		Wheatland Ave	WATER	16"	PSI	1600'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
220	SENER	LADWP	E2	UT-C4062-E2	1640+00	Arnwood Rd	WATER	6"	PSI	1300'		PROTECT IN PLACE
221	SENER	SCG	E2	UT-C4062-E2	1640+00	Arnwood Rd	GAS	2"	PSI	50'		TO BE RELOCATED
222	SENER	VERIZON	E2	UT-C4062-E2	1640+00	Arnwood Rd	TELECOM	UNKN OWN		1200'		PROTECT IN PLACE
223	SENER	LADWP	E2	UT-C4062-E2	1623+00	Near Wheatland Ave	OH POWER	500 KV	kV	1000'		PROTECT IN PLACE
224	SENER	AUTHORITY	E2	UT-C4062-E2		Wheatland Ave	OH POWER	UNKN OWN	kV	1500'		PROPOSED
225	SENER	LADWP	E2	UT-C4062-E2		Wheatland Ave	OH POWER	UNKN OWN	kV	500'		PROTECT IN PLACE
226	SENER	LADWP	E2	UT-C4063-E2		Foothill Blvd	WATER	30"	PSI	100'		TO BE RELOCATED
227	SENER	LADWP	E2	UT-C4063-E2		Foothill Blvd	WATER	12	PSI	100'		TO BE RELOCATED
228	SENER	SCG	E2	UT-C4063-E2		Foothill Blvd	GAS	4"	PSI	1600'		PROTECT IN PLACE
229	SENER	CITY OF LA	E2	UT-C4063-E2		Foothill Blvd	SEWER	12"	CFS	1500'		PROTECT IN PLACE
230	SENER	VERIZON	E2	UT-C4063-E2		Foothill Blvd	TELECOM	UNKN OWN	PSI	1500'		PROTECT IN PLACE
231	SENER	LADWP	E2	UT-C4063-E2		Foothill Blvd	OH POWER	500 KV	kV	2400'		PROTECT IN PLACE
232	SENER	LADPW	E2	UT-C4063-E2		Foothill Blvd	OH POWER	UNKN OWN	kV	100'		TO BE RELOCATED
233	SENER	AUTHORITY	E2	UT-C4064-E2		Wentworth St	WATER	12"	PSI	2000'		PROPOSED
234	SENER	SCE	E2	UT-C4064-E2		Near Wentworth St	OH POWER	230 KV	kV	1500'		PROTECT IN PLACE
235	SENER	AUTHORITY	E2	UT-C4064-E2		Wentworth St	TP-POWER	230 KV	kV	400'		PROPOSED
236	SENER	LADWP	E2	UT-C4064-E2		Wentworth St	OH POWER	500 KV	kV	2400'		PROTECT IN PLACE
237	SENER	LADWP	E2	UT-C4065-E2		Mcbroom St	WATER	12"	PSI	1500'		PROTECT IN PLACE
238	SENER	SCG	E2	UT-C4065-E2		Mcbroom St	GAS	6"	PSI	300'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
239	SENER	VERIZON	E2	UT-C4065-E2		Mcbroom St	TELECOM	UNKN OWN	PSI	1400'		PROTECT IN PLACE
240	SENER	SCE	E2	UT-C4065-E2		Near Mcbroom St	OH POWER	230 KV	kV	1000'		PROTECT IN PLACE
241	SENER	LADWP	E2	UT-C4065-E2		Near Mcbroom St3	OH POWER	500 KV	kV	2500'		PROTECT IN PLACE
242	SENER	VERIZON	E2	UT-C4066-E2	1730+40, 1739+00, 1740+10	Clybourn Ave	TELECOM	UNKN OWN		1300'		PROTECT IN PLACE
243	SENER	SCG	E2	UT-C4066-E2	1730+30, 1739+50, 1740+00	Clybourn Ave	GAS	2"	PSI	500'		PROTECT IN PLACE
244	SENER	SCG	E2	UT-C4066-E2	1743+25	Near Clybourn Ave	GAS	3"	PSI	400'		PROTECT IN PLACE
245	SENER	CITY OF LA	E2	UT-C4066-E2	1730+10, 1739+75, 1743+55	Clybourn Ave	SEWER	8"	CFS	2000'		PROTECT IN PLACE
246	SENER	LADWP	E2	UT-C4066-E2		Near Allegheny St	OH POWER	500 KV	kV	1400'		PROTECT IN PLACE
247	SENER	SCG	E2	UT-C4067-E2	1748+00	Dronfield Ave Area	GAS	1"	PSI			PROTECT IN PLACE
248	SENER	SCG	E2	UT-C4067-E2	1755+00	Dronfield Ave Area	GAS	2"	PSI			PROTECT IN PLACE
249	SENER	CITY OF LA	E2	UT-C4067-E2	1766+00	Dronfield Ave Area	SEWER	27"	CFS			PROTECT IN PLACE
250	SENER	SCG	E2	UT-C4068-E2		Randall St	GAS	2"	PSI	400'		PROTECT IN PLACE
251	SENER	CITY OF LA	E2	UT-C4068-E2	1786+00	Pendleton St	SEWER	8"	CFS	1000'		PROTECT IN PLACE
252	SENER	CITY OF LA	E2	UT-C4068-E2			SEWER	8"	CFS			PROTECT IN PLACE
253	SENER	SCG	E2	UT-C4069-E2	1804+00	Tuxford St	GAS	3"	PSI	500'		PROTECT IN PLACE
254	SENER	SCG	E2	UT-C4069-E2	1804+00	Tuxford St	GAS	12"	PSI	700'		PROTECT IN PLACE
255	SENER	SCG	E2	UT-C4069-E2	1804+00	Tuxford St	GAS	8"	PSI	2000'		PROTECT IN PLACE
256	SENER	SCG	E2	UT-C4069-E2	1801+00	Glenoaks Blvd	GAS	30"	PSI	2500'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
257	SENER	SCG	E2	UT-C4069-E2	1795+00	Randall St	GAS	2"	PSI	400'		PROTECT IN PLACE
258	SENER	SCG	E2	UT-C4069-E2	1800+00	Glenoaks Blvd	GAS	4"	PSI	900'		PROTECT IN PLACE
259	SENER	PACIFIC LLC	E2	UT-C4069-E2	1798+00	Glenoaks Blvd	OIL	14"	PSI	2500'		PROTECT IN PLACE
260	SENER	CITY OF LA	E2	UT-C4069-E2	1798+00	Glenoaks Blvd	SEWER	8"	CFS	1400'		PROTECT IN PLACE
261	SENER	CITY OF LA	E2	UT-C4069-E2	1796+00	Glenoaks Blvd	SEWER	24"	CFS	2500'		PROTECT IN PLACE
262	SENER	SCG	E2	UT-C4069-E2	1820+00	Penrose St	GAS	3"	PSI	1000'		PROTECT IN PLACE
263	SENER	SCG	E2	UT-C4070-E2	1841+00	Nettleton St	GAS	2"	PSI	2000'		PROTECT IN PLACE
264	SENER	CITY OF LA	E2	UT-C4070-E2	1841+00	Nettleton St	SEWER	8"	CFS	2000'		PROTECT IN PLACE
265	SENER	SCG	E2	UT-C4071-E2	1848+00, 1849+00	Sunland Blvd	GAS	UNKN OWN	PSI	1000'		PROTECT IN PLACE
266	SENER	LADWP	E2	UT-C4071-E2	1856+00	Roscoe Blvd	OH POWER	UNKN OWN	kV	2000'		PROTECT IN PLACE
267	SENER	CITY OF LA	E2	UT-C4071-E2	1856+00	Roscoe Blvd	SEWER	8"	CFS	1800'		PROTECT IN PLACE
268	SENER	CITY OF LA	E2	UT-C4071-E2	1848+00	Sunland Blvd	SEWER	21"	CFS	1200'		PROTECT IN PLACE
269	SENER	SCG	E2	UT-C4072-E2	1888+00	Armina St and San Fernando Blvd	GAS	UNKN OWN	PSI			PROTECT IN PLACE
270	SENER	LADWP	E2	UT-C4072-E2	1848+00	Armina St	WATER	UNKN OWN	PSI	1700'		PROTECT IN PLACE
271	SENER	CITY OF LA	E2	UT-C4072-E2		Ledge Ave	SEWER	8"	CFS	500'		PROTECT IN PLACE
272	SENER	CITY OF LA	E2	UT-C4072-E2	1887+00	Armina St	SEWER	21"	CFS	1500'		PROTECT IN PLACE
273	SENER	LADWP	E2	UT-C4072-E2	1894+00	Ledge Ave	OH POWER	UNKN OWN	kV	2000'		PROTECT IN PLACE
274	SENER	LADWP	E2	UT-C4072-E2	1894+00	Ledge Ave	WATER	8"	PSI	600'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
275	SENER	SCG	E2	UT-C4072-E2	1893+00	Arminta St and San Fernando Blvd	GAS	2"	PSI			PROTECT IN PLACE
276	SENER	SCG	E2	UT-C4073-E2	1895+00 to 1900+00	San Fernando Blvd	GAS	3"	PSI	1000'		PROTECT IN PLACE
277	SENER	City of LA	E2	UT-C4073-E2	1895+00 to 1900+00	San Fernando Blvd	SEWER	8"	CFS			PROTECT IN PLACE
278	SENER	LADWP	E2	UT-C4073-E2	1900+00	San Fernando Blvd	OH POWER	UNKN OWN	kV			PROTECT IN PLACE
279	SENER	LADWP	E2	UT-C4073-E2	1900+00	San Fernando Blvd	WATER	8"	PSI			PROTECT IN PLACE
280	SENER	SCG	E2	UT-C4073-E2	1900+00	San Fernando Blvd	GAS	3"	PSI			PROTECT IN PLACE
281	SENER	LADWP	E2	UT-C4073-E2	1901+00	San Fernando Blvd	WATER	8"	PSI			PROTECT IN PLACE
282	SENER	LADWP	E2	UT-C4073-E2	1902+50	San Fernando Blvd	WATER	48"	PSI			PROTECT IN PLACE
283	SENER	LADWP	E2	UT-C4073-E2	1905+00	San Fernando Blvd	WATER	12"	PSI			PROTECT IN PLACE
284	SENER	AT&T-SPRINT	E2	UT-C4073-E2	1903+00	San Fernando Blvd	TELEPHON E	4-2"				PROTECT IN PLACE
285	SENER	PPS	E2	UT-C4073-E2	1906+00	San Fernando Blvd	OIL	20"	PSI			PROTECT IN PLACE
286	SENER	QWEST	E2	UT-C4073-E2	1906+00	San Fernando Blvd	FIBER OPTIC	UNKN OWN				PROTECT IN PLACE
287	SENER	MOBIL WEST COAST	E2	UT-C4073-E2	1907+00	San Fernando Blvd	OIL	8"	PSI			PROTECT IN PLACE
288	SENER	SCG	E2	UT-C4073-E2	1907+00	San Fernando Blvd	GAS	4"	PSI			PROTECT IN PLACE
289	SENER	SCG	E2	UT-C4073-E2	1908+00	San Fernando Blvd	GAS	12"	PSI			PROTECT IN PLACE
290	SENER	AT&T-SPRINT	E2	UT-C4073-E2	1908+00	San Fernando Blvd	TELEPHON E	UNKN OWN				PROTECT IN PLACE
291	SENER	LADWP	E2	UT-C4073-E2	1907+00	San Fernando Blvd	WATER	16"	PSI			PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
292	SENER	WILLIAM S TELECOMM	E2	UT-C4073-E2	1916+00	San Fernando Blvd	TELECOM	UNKN OWN				PROTECT IN PLACE
293	SENER	LADWP	E2	UT-C4073-E2	1916+00	San Fernando Blvd	WATER	UNKN OWN				TO BE RELOCATED
294	SENER	City of LA	E2	UT-C4073-E2	1919+00	San Fernando Blvd	SEWER	8"	CFS			TO BE RELOCATED
295	SENER	GAS	E2	UT-C4073-E2	1919+50	San Fernando Blvd	GAS	2"	PSI			TO BE RELOCATED
296	SENER	BURBANK WP	E2	UT-C4073-E2	1919+50	San Fernando Blvd	WATER	12"	PSI			TO BE RELOCATED
297	SENER	LADWP	E2	UT-C4073-E2	1919+50	San Fernando Blvd	OH POWER	UNKN OWN				TO BE RELOCATED
298	SENER	BURBANK WP	E2	UT-C4073-E2	1919+75	San Fernando Blvd	OH POWER	UNKN OWN				TO BE RELOCATED
299	SENER	CITY OF BURBANK	E2	UT-C4073-E2	1919+80	San Fernando Blvd	SEWER	8"	CFS			REPLACE HDPE
300	SENER	CITY OF BURBANK	E2	UT-C4074-E2	1935+00	Area next to Cohasset St	WATER	10"	PSI	500'		TO BE RELOCATED
301	SENER	SCG	E2	UT-C4074-E2	1933+00	Area next to Cohasset St	GAS	2"	PSI	250'		TO BE RELOCATED
302	SENER	SCG	E2	UT-C4074-E2	1933+00	Area next to Cohasset St	GAS	4"	PSI	250'		TO BE RELOCATED
303	SENER	LACDPW	E2	UT-C4542-E2		Crown Valley Rd	WATER	12"	PSI			PROTECT IN PLACE
304	SENER	SCG	E2	UT-C4542-E2		Crown Valley Rd	GAS	4"	PSI			PROTECT IN PLACE
305	SENER	SCE	E2	UT-C4543-E2		Crown Valley Rd	OH POWER	UNKN OWN	kV	300'		PROTECT IN PLACE
306	SENER	AUTHORITY	E2	UT-C4543-E2		Crown Valley Rd	WATER	2X16"	PSI	300'		PROPOSED
307	SENER	SCG	E2	UT-C4543-E2		Crown Valley Rd	GAS	4"	PSI	800'		PROTECT IN PLACE
308	SENER	SCE	E2	UT-C4544-E2		Arraste Canyon Rd	OH POWER	UNKN OWN	PSI	2100'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
309	SENER	AUTHORITY	E2	UT-C4544-E2		Arraste Canyon Rd	WATER	2X16"	PSI	2100'		PROPOSED
310	SENER	SCG	E2	UT-C4544-E2		Arraste Canyon Rd	GAS	4"	PSI	350'		PROTECT IN PLACE
311	SENER	SCE	E2	UT-C4545-E2		Arraste Canyon Rd	OH POWER	UNKN OWN	PSI	1800'		PROTECT IN PLACE
312	SENER	AUTHORITY	E2	UT-C4545-E2		Arraste Canyon Rd	WATER	2X16"	PSI	1800'		PROPOSED
313	SENER	AUTHORITY	E2	UT-C4546-E2		Arraste Canyon Rd	WATER	2X16"	PSI	1800'		PROPOSED
314	SENER	SCE	E2	UT-C4547-E2		Arraste Canyon Rd	OH POWER	230 KV	PSI	2700'		PROTECT IN PLACE
315	SENER	SCE	E2	UT-C4547-E2		Arraste Canyon Rd	OH POWER	230 KV	kV	2800'		PROTECT IN PLACE
316	SENER	SCE	E2	UT-C4547-E2		Arraste Canyon Rd	OH POWER	230 KV	kV	2600'		PROTECT IN PLACE
317	SENER	AUTHORITY	E2	UT-C4547-E2		Arraste Canyon Rd	WATER	2X16"	PSI	1800'		PROPOSED
318	SENER	AUTHORITY	E2	UT-C4559-E2		Wentworth St	WATER	12"	PSI	50'		PROPOSED
319	SENER	LACDPW	E2	UT-C4566-E2			WATER	30"	PSI	1800'		PROTECT IN PLACE
320	SENER	AUTHORITY	E2	UT-C4567-E2		Wentworth St	WATER	12"	PSI	1800'		PROPOSED

Appendix C: Utility Owner Contact Log

E2 Alignment – Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
1	SENER	Level 3 Communications (Telephone)	2015-12-17 To 2016- 08-25	918-547-0007 (213) 929-2126 felix.vigil@level3.com (949) 672-0403 gerardo.issasi@level3.com (949) 275-1419	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-17: Email sent to Gerry Issasi with attached letter and maps</p> <p>2015-12-30: Updated correction to telephone no.</p> <p>2016-01-14: Confirmed with Gerry that Felix is the point of contact for LA; Called Felix; no response; sent email to follow up</p> <p>2016-01-15: Confirmed with Felix he is the point of contact for LA area; emailed him TG grid pages with markups</p> <p>2016-02-17: Received some snapshots of their facilities in the project research area. Will received more detailed plans by the end of the week</p> <p>2016-6-24: resent letter by email + Google Earth file, also requested further details to previous response</p> <p>2016-8-2: CN resent letter again by email + Google Earth + GIS, also left voicemail</p> <p>2016-8-3: Caleb King emailed, they will respond by 9/9</p> <p>2016-8-10: Caleb verified by email that he is responsible for all of California.</p> <p>2016-8-19: CN sent maps previously received to Caleb to ask for clarification and drawings.</p> <p>2016-8-24: CN emailed Caleb to request phone number, his sig file shows Oklahoma address, no number.</p> <p>2016-8-25: Caleb responded with phone number, requested Google Maps image of research area, offered to look into it himself. CN emailed Google Earth file + jpg maps Level 3 sent previously.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
2	SENER	Time Warner Cable (Charter)	2016-01-07 To 2016-08-24	john.jacinto@charter.com (714) 591-4878 (Dave's new #) O: (310) 647-5167 C: (714) 920-6026 west-engineering-relo@twcable.com dave.bell@charter.com	TAGC/Ray Wang HDR/Cherie Nixon	HDR to review maps; need to request maps 1&2 larger size 2016-01-07: Requested larger maps since they are not legible; waiting for response 2016-01-20: Called Dave Bell; would like us to email him of our concerns and he will forward the email/follow up with the group; Sent email to follow up 2016-01-26: Received new maps; still not legible 2016-02-22: Bell emailed us to let HDR know he has been passing the information along to the group to respond back with legible maps. 2016-03-21: received email w vague but legible pdf maps (via Roberto Rodriguez). 2016-5-6: rec'd email w vague pdf map (from westengrelo via Roberto Rodriguez) 2016-8-10: CN emailed westengrelo to request drawings that show distance to street CL. 2016-8-11: westengrelo emailed that they don't have drawings showing distance to CL. 2016-8-16: CN emailed Dave Bell to ask if there's any way to obtain drawings that show distance to CL. (Auto-response shows Dave's new Charter email after merger.) 2016-8-17: Dave suggested contacting John Jacinto at Charter, as well as westengrelo. 2016-8-23: CN emailed letter + Google Earth + GIS to John requesting detailed drawings. 2016-8-24: John ("JJ") replied to say he would look into it to see what they can provide.
3		Newhall County Water	5/2/2016	(661) 259-3610 jjenkins@ncwd.org	TAGC/Ray Wang HDR/Cherie Nixon	5/2 - rec'd CAD + pdf files fr Danielle Burleson Drawings don't show distance from CL - check CAD drawings. TAG to verify that CAD locations are correct (contact NCWD).

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
4	SENER	Southern California Edison (SCE) Overhead Power Transmission	2015-12-30 To 2016-09-20	(714) 796-9932 maprequests@sce.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-30: Sent out email with attached letter for utility request</p> <p>2015-12-31: Emailed to respond request was received; currently in progress</p> <p>2016-01-05: SCE would like a shape file for the project research area</p> <p>2016-01-13: HDR sent SCE .dgn & .kmz file of the research area</p> <p>2016-01-20: SCE sent non-disclosure agreement</p> <p>2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements.</p> <p>2016-8-5: Dennis called CN, he is checking if we already have NDA with them.</p> <p>2016-8-18: Dennis emailed to let us know we do have an NDA with them. CN emailed Kim with 4/20 letter + Google Earth + GIS files requesting as-builts.</p> <p>2016-8-19: Kim emailed to ask if the NDA was project specific, CN responded to say yes.</p> <p>2016-8-24: Kim emailed to ask about the NDA (under HDR?), CN responded that it could be the CHSR Authority, Rail Delivery Partner, Cordoba Corporation, or Parsons Brinkerhoff. Kim also sent an invoice for \$81.30, CN forwarded to TAG to request payment.</p> <p>2016-8-25: CN called Kim, invoice for a diff HDR project. Kim can't find NDA, explained their rules. CN emailed Dennis Kim requesting copy of NDA. Dennis said he will email it tomorrow morning.</p> <p>2016-8-25: CN emailed Google Earth file + alignment exhibit to Kim as requested. CN emailed RDP Dennis Kim to request NDA.</p> <p>2016-8-26: Dennis Kim sent NDA.</p> <p>2016-8-30: CN emailed NDA to Kim, Kim said they can't accept it. CN emailed Joe McNeely to request that HDR sign its own NDA.</p> <p>2016-9-6: Joe requested resolution fr RDP, Rick Simon said CN to contact Dennis Kim at RDP.</p> <p>2016-9-9: CN emailed Dennis Kim to request that HDR sign NDA directly with SCE.</p> <p>2016-9-20: CN called Dennis Kim to follow up. He will discuss it with the CHSR lawyer and get back to CN.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
5	SENER	SCE - Telecom	2016-04-23 to 2016-08-24	(626) 308-6186	TAGC/Ray Wang HDR/Cherie Nixon	2016-4-23: Letter received by SCE Telecom. 2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements. 2016-8-5: Dennis called CN, he is checking if we already have NDA with them. 2016-8-8: Dennis emailed to let us know we do have an NDA with them. CN to follow up after NDA found. 2016-8-24: CN called number for Tommy Savage, voicemail to someone else's name. Requested Tommy's number.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
6	SENER	ATT - Distribution	2016-01-04 to 2016-09-01	(510) 645-2929 (Mary) ma2797@att.com (626) 817-4235 (Kathy) PM1736@att.com (626) 817-4289 (Cathy) al6941@att.com (626) 390-342	TAGC/Ray Wang HDR/Cherie Nixon	Would like a list of TG map grids 2016-01-04: Emailed a list of TG grids; waiting for response 2016-01-26: Called; no response 2016-02-10: ATT emailed back to ask more questions about billing for the map request and for more detail of project location; HDR response is to send TG maps; ATT called and state TG pages are too vague and need the exact street crossings 2016-02-15: HDR asked the pricing per grid or intersection 2016-03-02: HDR responded by sending .kmz file for clarity and described the research location in email 2016-03-03 more calls & email clarification w Mary Ramos & Kathy Montoya, requested fee estimate 2016-03-04 Mary Ramos emailed fee invoice, \$501.40 2016-4-28: Mary Ramos called, need specific streets & intersections, and payment for previous request TAG to pay \$501.40 fee, Cherie to clarify remaining info with Mary Ramos. (CN gathering info for Mary.) 2016-8-1: TAG has sent the check with \$501.40 to Mary/AT&T. 2016-8-3: CN emailed Mary with description, requested cost estimate of additional as-builts. 2016-8-11: Mary called for clarification, said she mailed first package this week. 2016-8-15: HDR received first set of as-builts, saved to PW. 2016-8-17: Mary left voicemail requesting TG pages with narrowed request area highlighted 2016-9-1: Kathy Montoya sent invoice \$1286.20. TAG to pay invoice (not paid yet), CN preparing sketches to send.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
7	SENER	Los Angeles Department of Water and Power (LADWP)	2015-12-30 To 2016-08-20	(213) 367-4957 Edgar.Mercado@ladwp.com (213) 367-2715 Ernest.Fresquez@ladwp.com Charles.Dunn@ladwp.com Jeffrey.Williams@ladwp.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-20: Left voicemail 2016-01-26: Spoke with Ernie; would like TG map pages to narrow down the research area; sent to Ernie 2016-6-24: resent letter by email + Google Earth file 2016-7-18: called & emailed to follow up, resent list of TG grids + 4/20 letter + Google Earth file, voicemail 2016-7-18: reached Ernie, leaving the group, recommended contacting his boss, Edgar Mercado. Emailed Edgar 2016-4-20: letter, Google Earth file, left voicemail. 2016-8-3: TAGC called & left voice message to Edgar. 2016-8-10: TAG called & left voice message to Edgar. No response. 2016-8-15: TAG emailed & left voice message to Edgar again. No response yet. 2016-8-18: TAG emailed 4/20 letter + Google Earth + TG pages to Charles Dunn & Jeffrey Williams. 2016-8-19: Charles Dunn emailed TAG, too busy for large requests, recommended Navigate LA + Google Earth/field review. TAG to follow recommendations. 2016-8-20: TAG will use substructure map from Navigate LA +Google Earth/field review to figure out the LADWP facilities. This line item can be move to the lower priority.
8	SENER	Air Touch Cellular (Telephone)	2015-12-23 To 2016-02-26	(818) 898-2352 matthew.kang@cableneg.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-23: Would like a list of TG map grids 2016-01-04: Emailed a list of TG grids; waiting for response 2016-01-06: Emailed Thomas Guide Pages with markups 2016-01-07: Response it will take then 1-2 months to complete the research since it's a major request 2016-02-22: Sent follow up email to Air Touch Cellular 2016-02-23: Followed up in email; they will send info to HDR soon 2016-02-24: HDR sent email to Kang for Sharepoint login/upload 2016-02-26: Air Touch Cellular sent us information on their facilities via email; HDR to review.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
9	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	2016-02-11 To 2016-10-12	Sam Queszada 4th floor, Survey Department, 900 S Fremont Ave Alhambra, CA 91803	TAGC/Ray Wang HDR/Cherie Nixon	2016-2-11: Shane downloaded a few pdfs in Palmdale fr website -> TAG to search for more as-builts online, find contact name (check with Stan Pegadiotes from San Districts) 2016-7-28: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather sewer plans. 2016-8-1: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather ALL sewer as-builts. Those drawings are all within the City of Palmdale. 2016-8-2: Hank Fung also emailed conceptual sewer maps to HDR. 2016-10-12: TAG evaluated the as-built and input applicable information in CAD base. uploaded files in 4.10 folder in PW.
10	SENER	AT&T - Transmission	2015-12-30 To 2016-06-27	(213) 787-9996 mg1371@att.com g05131@att.com (cc this email)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-06: Emailed confirmed there are no AT&T TCA facilities in the project area 2016-6-24: resent 4/20 letter by email + Google Earth file 2016-6-27: Maria forwarded original 6/13 response
11	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	2016-07-01 To 2016-08-08	(626) 458-3980 Fung hfung@dpw.lacounty.gov (626) 458-3935 Swindle	TAGC/Ray Wang HDR/Cherie Nixon	2016-7-01: Letter drafted, waiting for internal approval 2016-7-18: Letter sent + email with comments, called Hank Fung. Hank said they can look for the plans, also advised coming in to check microfiche, and checking with the Army Corps of Engineers. 2016-7-19: Hank requested GIS files used to create Google Earth file. 2016-7-20: Hank requested we resend Google Earth file. Resent Google Earth + GIS files. 2016-7-26: Hank emailed to let us know they're working on gathering as-builts for us. 2016-7-28: Bill asked if LACFC has facilities in Palmdale, emailed Hank, he confirmed none. 2016-8-2: Hank Fung will mail SD as-builts to Cherie/HDR.8/ 2016-8-4: Hank Fung has 1.4G files ready for TAG to pick up. 2016-8-8: TAG has copied the 1.4G files from Hank Fung.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
12	SENER	County Sanitation Districts of Los Angeles County (LACSD)	2016-02-11 to 2016-08-25	(562) 908-4288 x1204, x1205 (engineering counter) engineeringcounter@lacs.d.org (562) 908-4288, x1620 (Stan P) Klipock@lacs.d.org	TAGC/Ray Wang HDR/Cherie Nixon	2016-2-11: Shane emailed engineering counter to request as-builts for portion in Palmdale (not allowed to request larger area at that time, 4/20 letter addressed to LACDPW) 2016-2-24: Koesen Lipock fr eng counter emailed link to Shane, 119 pg pdf 2016-7-19: emailed 4/20 letter to eng counter, request remaining as-builts 2016-7-20: Koesen requested map, can't open kmz file, emailed pdf. 2016-7-23: Stan Pegadiotes emailed, no longer with sewer design section. 2016-7-25: Koesen emailed link, CN forwarded to TAG. (7/27 reforwarded email to TAG.) 2016-7-29: TAG emailed a sewer drawing list to LACSD Engineering Counter. 2016-8-2: Koesen emailed to mention that they are working on the collection of sewer as-builts. 2016-8-4: Koesen emailed a link to the dropbox for TAG to download the sewer as-builts. TAG has downloaded them and uploaded to PW. 2016-8-11: TAG coordinated with Koesen for collecting some additional as-builts that we've not gathered last time. no response yet. 2016-8-16: Koesen responded that he will upload the additional as-built to the box (FTP) 2016-8-24: TAG emailed to request a status. 2016-8-25: TAG has downloaded all additional as-built drawings from LACSD. This line item can be moved to the lower priority.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
13	SENER	Metropolitan Water District	2015-12-14 To 2016-06-07	(213) 217-6534 (213) 217-7474 szareh@mwdh20.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-14: Provided HDR a card for project reference ID 2015-12-21: As-builts received 2016-5-26: rec'd letter w as-built plans 2016-6-7: replied requesting missing document listed in letter
14	SENER	Palmdale Water District	2016-05-20 To 2016-07-28	(661) 456-1022 (661) 947-4111 (Eng Dept.) mwest@paldalewater.org mknudson@paldalewater.org	TAGC/Ray Wang HDR/Cherie Nixon	2016-5-20: met w Matthew Knudson, Joe McNeely, Roberto Rodriguez (Sener), RDP 2016-6-24: resent letter by email + Google Earth file (to MK, cc MW) 2016-7-19: resent letter by email + Google Earth file (to MW, cc MK), also emailed Roberto Rodriguez to check if he had received anything 2016-7-20: left voicemail for Michael West. He called back, requested narrower research area. We'll add him to Sharepoint, he'll look into the GIS files that Matt promised, and the as-built drawings. Emailed GIS files of research boundary + narrower as-built boundary. 2016-7-21: Richard Heinonen emailed GIS files. Mike West now has Sharepoint access to upload as-builts, emailed link & password. 2016-7-25: Mike West emailed re Sharepoint issues. CN responded with suggestions. 2016-7-26: Mike West emailed to verify mailing address, will send a disk in the mail. 2016-7-28: Received disk from Mike West with pdf as-builts.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
15	SENER	Plains All American Pipeline (Oil)	2015-12-30 To 2016-09-07	(562) 728-2817 (Becky Sitton) bsitton@paalp.com (562) 728-2371 pjbawden@paalp.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-04: Left voicemail to follow up 2016-01-15: Spoke with Paula; would like us to email them TG pages with markups; follow up next week for the map request 2016-02-04: Sent out follow up email 2016-02-17: Left voicemail to follow up 2016-02-22: Called at 1:15 PM; no response 2016-02-23: Received email Becky Sitton will be working on HSR 2016-02-24: Becky will be sending us information in the mail; will send hardcopy in mail 02/25 2016-02-29: Received hardcopies of the plans in the mail from Plains; HDR to review 2016-4-23: Letter received by Plains 2016-5-11: email to ask if we want duplicates fr previous request, responded no 2016-5-17: hard copies received - appear to be as-builts, but can't find distance fr street CL 2016-8-5: CN verified to Becky Sitton that we have all as-builts in the Metrolink R/W (after series of emails that turned out to be irrelevant.) 2016-8-18: CN emailed Becky to verify shared trench w Centurylink (was Qwest), Becky confirmed. 2016-9-6: CN emailed Becky to ask if any of their pipe is above ground. 2016-9-7: Becky replied that it's all underground except at Hollywood Way where it is encased in cement, and Pacoima Wash where it hangs on the bridge.
16	SENER	State of California, Department of Water Resources	2016-05-27 To 2016-06-20	(661) 994-8574 jdes@water.ca.gov	TAGC/Ray Wang HDR/Cherie Nixon	no response, HDR and/or RDP planning to meet with them 2016-5-27: DWR gave as-builts to the RDP (see 05.11.02 folder) 2016-6-20: DWR gave hydrology report to the RDP (See 05.11.02 folder)

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
17	SENER	AT&T - Transmission (Telephone)	2015-12-28 To 2016- 08-25	(714) 963-7964 (Forkert) joef@forkertengineering.com (925) 997-2413 (Hamill) (714) 963-7964 (Shapzian) (559) 442-2252 (Shermoen)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-28: Responded with two letters; Sending AT&T plans in the mail (hardcopies) 2015-12-30: Received Plans and letter hardcopies in the mail; HDR to review 2016-5-3: email w lease letter & conflict letter 2016-5-9: received hard copies in the mail 2016-8-24: CN left voicemail asking Joe to call me re where to find cable locating dimensions in as-builts. 2016-8-25: Joe called CN, explained leased vs owned. They can provide maps of owned conduit, contact other AT&T Dig Alert contacts for leased conduit. Mapping shows as-builts at Metrolink Ventura sub, mapping in other locations.
18	SENER	Los Angeles County Water Works	2016-02-24 To 2016- 09-20	(661) 300-3337 bhua@dpw.lacounty.gov jkitto@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-02-24: Bing Hua emailed, uploaded pdfs to Sharepoint site 2016-5-3: Bing emailed to let us know that they have no additional facilities in the new research area that they hadn't already sent 2016-7-26: Jason Kitto asked for shape files of research area, CN emailed them. Also emailed list of pdfs that Bing Hua sent in Feb to avoid duplicate efforts. 2016-7-28: Jason Kitto asked for GIS or Google Earth file of alignments, CN emailed it. 2016-8-1: TAG visited LAC Water Works (Jason Kitto, 2nd floor Water Resource Dept.). He said that he has completed the water research and it will take 3-4 weeks for them to gather as-builts and send directly to Cherie/HDR. 2016-9-20: CN emailed Jason Kitto to follow up on status of request. Jason called and said that what Bing sent covers everything they have in our research area.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
19	SENER	Southern California Gas (SCG) - Transmission	2015-12-30 To 2016-08-24	(818) 701-3253 (Chris Coria) Ccoria@semprautilities.com (818) 701-6679 (818) 701-4546 rsquires@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-14: Resent letter by email to Rosalyn; asked us to follow up next Tuesday 01/19 2016-01-15: Sent Squires .kmz file per request 2016-01-15: Squires sent plans per request; HDR to review 2016-5-5: Estafania Sanchez requested Google Earth file of request area 2016-6-22: emailed Google Earth file to Estafania 2016-6-24: Estafania called to verify what we need, and to check if our previous request was fulfilled 2016-6-27: Estafania tried to email files, but they didn't come through. Janet will add her to the Sharepoint site. 2016-6-28: Sharepoint access didn't work, so Estafania sent info through multiple emails. 2016-8-23: CN emailed Estefania to request as-builts, priority Ave S (currently have maps with distances but not as-builts. 2016-8-24: Estefania responded that another engineer can work with us to send as-builts after we send preliminary construction drawings. CN requested contact info for that engineer, Estefania gave Chris Coria's info. CN emailed Chris to request as-builts of gas mains in Ave S. 2016-9-6: CN emailed to ask if any of their pipes are above ground. 2016-9-9: Estafania responded to ask for clarification, CN responded.
20	SENER	T-Mobile (Telephone)	2015-12-09 To 2016-06-27	(818) 840-0808 (805) 279-3513 shenderson@synergy.cc glake@synergy.cc	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-09: Gregg Lake emailed pdfs package returned 2016-6-24: resent letter by email + Google Earth file 2016-6-27: Gregg Lake emailed, didn't receive letter, send directly to him next time. No utilities.
21	SENER	XO Communications (Telephone) - Los Angeles	2015-12-07 To 2016-08-23	(949) 417-7841 matt.bergine@xo.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-07: Need to review information provided 2016-4-27: received pdf as-builts 2016-8-2: CN emailed Matt to ask questions about the drawings they sent. 2016-8-3: Matt responded with answers to questions.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
22	SENER	City of Palmdale	2015-12-30 To 2016-10-12	(661) 267-5347 (Deyo) jdeyo@cityofpalmdale.org (661) 267-5272 (Autry) sautry@cityofpalmdale.org (661) 267-5337 (Behen) mbehen@cityofpalmdale.org (661) 267-5300 (Gen City No.) bpadilla@cityofpalmdale.org	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-04: Stephanie Autry from City of Palmdale responded to email; Fwd email to Bill Padilla, City Engineer; waiting for response 2016-01-05: Email confirmed that the project research area is not in their City's limits 2016-4-27: Jim Deyo emailed GIS files for sewers 2016-7-26: TAG Sent email to Jim GIS +Google Earth and April Letter pdf requesting storm drain As-builts; 7/26 Received Storm Drain GIS Files from Jim. 2016-7-26: TAG left a voicemail message to Jim no response. 2016-8-1: Jim emailed TAG, sending CD with storm drain as-builts today 2016-8-2: TAG asked Jim who should be contacted for other as-builts such as roadway, water, lighting, etc. Jim said Engineering section. He will also forward this request to City Engineer. Engineering Section will collect everything in next couple of weeks. TAG will follow up. 2016-8-10: TAG emailed Jim Deyo to confirm if he has mailed to CD to us but he has not done yet due to waiting for other utility as-builts together. 2016-8-24: TAG followed up and Jim Deyo responded and he is still waiting for other as-builts. Eng Dept. has several large data requests and they are busy. will find out when they can have all the information. 2016-8-29: TAG emailed Jim to request if he can send whatever available information to us and send a separated mail for the remaining files. 2016-9-1: Jim emailed TAG to confirm mailing address. 2016-9-7: TAG received 8 disks of CD from CoP (Jim), will evaluate the as-builts and upload the files to PW. 2016-10-12: TAG evaluated the files which are "1A". The files were saved in 4.10 folder in PW.
23	SENER	Los Angeles County Department of Public Works (LACDPW)	2016-01-04 To 2016-08-25	(626) 458-3109 dchenowe@dpw.lacounty.gov v jbouse@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-01-13: Contact Anne Marie Gilmore and Kari Eskridge from 710 project for LACDPW utility coordinator; Eskridge provided contact, Daryll Chenoweth; called and confirmed Daryll Chenoweth is the contact & provided mailing address; sent letter hardcopy in mail & email 2016-4-26: Daryll emailed long description for how to pursue further info 2016-8-25: TAG has followed Daryll's email instructions and collected the as-builts for sewer, storm drain, Street Lighting (limited information). See other LACDPW line items for more info.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
24	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	2016-07-28 To 2016-08-24	(626) 300-4753 jchow@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-7-28: TAG visited LACDPW street lighting Dept. (Jeff Chow 1000 Fremont 4th floor). He'd forward the info to Hank Fung that day. 2016-8-11: TAG emailed Jeff Chow to confirm if he could send as-builts to us since Hank did not include street lighting as-builts. Jeff is on vacation and be back on Aug 15. 2016-8-17: Jeff and Jimmy sent a pdf showing street lighting drawing number. 2016-8-18: TAG emailed Jeff to request real as-built drawings. 2016-8-24: Jeff Chow responded and instructed that Street Lights are owned and maintained by SCE. Any as-builts drawings can be requested from SCE.
25	SENER	Time Warner Cable (Telephone)		(661) 259-6909 dianell.caamano@twcable.com	HDR/Cherie Nixon	package returned follow up with Dave Bell
26	SENER	SCG - Distribution Valencia/ Branford/ Saticoy/ Lancaster (Gas)	2016-01-04 To 2016-08-24	(818) 701-3335 (Bruce) (818) 701-3448 tbruce@semprautilities.com bwimmer@semprautilities.com elewis3@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	Would like more detail on the alignments on Thomas Guide Map 2016-01-04: Emailed a list of TG grids; waiting response to Timothy Bruce 2016-01-11: Received an invoice from SCG before they can distribute the plans 2016-02-25: SCG Dist sent in the mail a CD with the plans 2016-03-01: HDR received CD with plans 2016-5-20: letter w invoice \$1512 (Timothy Bruce) 2016-7-25: email & voicemail to Tim to check status, back from vacation tomorrow. 2016-7-26: Tim emailed to confirm we still owe \$1512. HDR reminded the RDP. 2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements. 2016-8-5: Dennis called CN, suggested asking Juan Carlos to approve payment. 2016-8-10: RDP approved payment of \$1512, TAG to pay fee. 2016-8-15: TAG mailed the check of \$1512 to SCG (Billing Dept.) 2016-8-16: CN emailed Tim to let him know the check is in the mail, and to request an estimate of when we will receive the drawings. 2016-8-19: Tim Bruce emailed, said he's putting CD w as-builts in the mail. 2016-8-24: HDR received CD w atlas sheets. CN emailed to request clarification of legend. Tim sent legend.

Appendix D: Utility Log Index

Heading	Explanation
No.	Sequentially number each entry
Region	Regional Consultant
Owner	Utility Owner
Contact	Name of the contact person representing the Owner
Title	Job title of the contact person representing the Owner
Address	Street Address, City, and Zip Code of the Owner's contact location
Phone	Phone number for Owner's representative
Email	Email address for Owner's representative
HSR Alignment	High-Speed Train Alignment Subsection Alternative
Station	Stationing along the alignment to locate the facility
Facility Type	Type of utility being conveyed
Size	Size of utility facility
Units	Units of measure for the size of utility
Length	Length of utility being impacted - Use separate entries for abandonment and relocated utilities
% Cost Allocation	Percentage of construction cost to be borne by CHSRA (requires input by CHSRA)
Disposition	State the type of work being performed (removed, relocated, protect in place)
Date	Date of contact with Owner
Correspondence Type	Type of correspondence with Owner (phone, fax, letter, email)
Description	Description of the discussion and/or request. Include reference to email or letter dates

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California High-Speed Rail Authority

Palmdale to Burbank Project Section

PEPD RECORD SET REV01

Appendix 3.6-A High Risk & Major
Utilities Impact Report Refined SR14

August 2022



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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ACRONYMS AND ABBREVIATIONS

ANF	Angeles National Forest
Authority	California High-Speed Rail Authority
CEQA	California Environmental Quality Act
CFS	Cubic Feet per Seconds
CHSTP	California High-Speed Train Project
DPW	Department of Public Works
EIR	Environmental Impact Report
EIS	Environmental Impact Study
FRA	Federal Railroad Administration
GIS	Geographic Information System
HDC	High Desert Corridor
HMF	Heavy Maintenance Facilities
HSR	High-Speed Rail
kV	Kilo Volts
LACWD	Los Angeles County Waterworks Department
LACFCD	Los Angeles County Flood Control District
LADWP	Los Angeles Department of Water and Power
LMF	Light Maintenance Facility
MWD	Metropolitan Water District
NB	North Bound
NEPA	National Environmental Policy Act of 1969
OH	Overhead
PB	Palmdale to Burbank
PSI	Pounds per Square Inch
RDP	Rail Development Partners
RSA	Resource Study Area
ROW	Right of Way
SB	South Bound
SCE	Southern California Edison
SCG	Southern California Gas(The Gas Company)
SCRRA	Southern California Regional Rail Authority (Metrolink)
SGMNM	San Gabriel Mountains National Monuments
SR	State Route
TM	Technical Memorandum
TPSS	Traction Power Substation

UG	Underground
UPRR	Union Pacific Railroad
VM	Voicemail
WD	Water Department

EXECUTIVE SUMMARY

The California High-Speed Rail (HSR) Authority (Authority) proposes to construct, operate, and maintain an electric-powered HSR system in California. When completed, it will run from San Francisco to the Los Angeles Basin in under 3 hours at speeds capable of exceeding 200 miles-per-hour. The system will eventually extend to Sacramento and San Diego, totaling 800 miles with up to 24 stations.

The Authority and the Federal Railroad Administration (FRA) have prepared program-wide, Tier 1 environmental documents for the HSR system under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Specifically, the Authority and FRA prepared the Statewide Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) (Authority and FRA 2005) to evaluate the ability of the HSR system to meet the existing and future capacity demands on California's intercity transportation system. The Authority and FRA also prepared the Bay Area to Central Valley HSR Program EIR/EIS (Authority and FRA 2008) to identify a corridor alignment and the station locations for the connection between the Bay Area and the Central Valley.

The Authority and FRA are now undertaking second-tier, project environmental evaluations for several sections of the statewide system. This report is for the Palmdale to Burbank Project Section. This project section is approximately 38 to 44-mile long, and has multiple alignment alternatives under study. The project section extends through a variety of land uses and ecoregions, including urban, rural, and mountainous terrain. Each alignment alternative would involve areas of tunneling beneath the Angeles National Forest (ANF), including portions within the San Gabriel Mountains National Monument (SGMNM).

Each of the alternatives under analysis in the Palmdale to Burbank Project Section is divided in three subsections: Palmdale, Central and Burbank.

This report evaluates the impacts of High Risk utilities and major utilities (transmission) on the construction of the Refined SR14 Alternative for Palmdale to Burbank Section of the California HSR System.

This report is prepared at a 15% Design Level, and the information is compiled according to TM 2.7.4 Designer's Responsibilities and Utility Requirements. It discusses the Refined SR14 Alignment Alternative from Palmdale to Burbank. The utilities discussed in this report do not include storm drains. For information regarding storm drains, see Palmdale to Burbank Project Section PEPD Record Set Rev01 Stormwater Management Report Alignment Refined SR14.

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1 INTRODUCTION

The planning, design, construction, and operation of the California High-Speed Rail (HSR) System are the responsibility of the California High-Speed Rail Authority (Authority), a state governing board formed in 1996. The Authority's statutory mandate is to develop an HSR system coordinated with the state's existing transportation network, including intercity rail and bus lines, regional commuter rail lines, urban rail and bus transit lines, highways, and airports. The Authority's plans call for high-speed intercity train service on more than 800 miles of track throughout California, connecting the major population centers of Sacramento, the San Francisco Bay Area, the Central Valley, Los Angeles, the Inland Empire, Orange County, and San Diego. Implementation of the California HSR System is planned in two phases. Phase 1 would connect San Francisco to Los Angeles and Anaheim through the Central Valley. Phase 2 would connect the Central Valley (Merced Station) to Sacramento, and another extension is planned from Los Angeles to San Diego. The HSR system would meet the requirements of Proposition 1A, including maximum, nonstop service travel time between San Francisco and Los Angeles of two hours and 40 minutes.

The Palmdale to Burbank Project Section would be a critical link in the Phase 1 HSR system connecting San Francisco and the Bay Area to Los Angeles and Anaheim. In 2005, the Authority and the Federal Railroad Administration (FRA) relied on Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) documents to select the SR-58/Soledad Canyon and LACMTA/Metrolink corridors as the preferred alignment between Bakersfield and Sylmar, with a station in the City of Palmdale. This alignment would extend east from Bakersfield along SR-58, generally following SR-58 through the Tehachapi Mountains to Mojave, along LACMTA/Metrolink corridors through Antelope Valley and Soledad Canyon, and generally follow SR-14 from the City of Santa Clarita to Sylmar in the City of Los Angeles (FRA 2005). The SR-58/Soledad Canyon and LACMTA/Metrolink corridor from Bakersfield to Los Angeles was later split into two sections for more detailed project-level evaluation: the Bakersfield to Palmdale Section and the Palmdale to Los Angeles Section.

The alternatives for the Palmdale to Los Angeles Section were then defined through public scoping conducted for the Palmdale to Los Angeles Section in 2007, the alignment and station screening evaluation process described in the Palmdale to Los Angeles Preliminary Alternatives Analysis Report (PAA) (2010), and the Palmdale to Los Angeles Supplemental Alternatives Analysis (SAA) Reports (2011, 2012, and 2014).

A recommendation in the 2014 SAA Report in May 2014 was that the Palmdale to Los Angeles Section be divided into two sections (Palmdale to Burbank and Burbank to Los Angeles). Following this recommendation, a second public scoping period took place from July to September 2014. Following this public scoping period, the Palmdale to Burbank SAA Report (2015) was presented to the Authority Board of Directors in June 2015.

Subsequently, during the June 9, 2015 Board meeting, issues were raised regarding the alternatives presented in the 2015 SAA. Subsequent to the Board meeting, the Authority explored ways to refine the alternatives so as to address concerns raised at the Board meeting and through previous stakeholder outreach. The 2016 SAA, presented to the Authority Board of Directors in April of that year, reflects refinements to the rail alignments, stations, and ancillary features presented in the 2015 SAA.

This report documents the detailed technical description of the High Risk and Major utility impacts along rail alignment Refined SR14 Alternative for Palmdale to Burbank Section of the California HSR System with the refined station at Burbank area. This report includes the following:

- Identifying owners of existing utilities to be impacted within the project footprint
- Classifying existing utilities as High Risk or Major utilities in order to identify those that could significantly impact the operation of the high speed train, or vice versa.
- Identifying other significant utility related facilities impacted within the project footprint.
- A matrix of impacted utilities and their relocation dispositions.

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2 PROJECT DESCRIPTION

The Palmdale to Burbank Project Section includes three potential alignments that would extend approximately 38- to 43-miles through a variety of land uses and ecoregions, including urban, rural, and mountainous terrain in Southern California. From the north, this project section would begin at Avenue L in Lancaster, travel south through the Palmdale Transportation Center (Palmdale TC) Station, continue southwest beneath the Angeles National Forest (ANF), and then enter the San Fernando Valley where it would connect with the Burbank Airport Station and terminate just north of Winona Avenue. This project section also includes a potential maintenance facility in the Lancaster area.

Because of the lowering of Avenue Q, we are relocating all the utilities along Avenue Q and at the intersection of Avenue Q and Sierra Highway, which is also being lowered about 22 ft., pump stations along with force mains are being added to accommodate the sewer needs. See proposed plans for details. A temporary sewer high - line will be added during the construction (not included in the quantities)



Figure 2-1 Palmdale to Burbank Alignment Alternatives

2.1 Refined SR14 Alternative

This section briefly describes the Palmdale to Burbank Project Section Refined SR14 Alternative.

Palmdale Subsection

The northern limit of the Palmdale Subsection is Avenue O in the City of Palmdale, on the west side of Sierra Highway. South of Avenue O, the alignment would run parallel to and approximately 200 feet west of the existing Metrolink Antelope Valley right-of-way. The alignment would enter the Palmdale TC after crossing East Avenue Q, approximately two miles south of Avenue O. The alignment would follow the existing 6th Street East right-of-way through the Palmdale TC.

The alignment would remain in the 6th Street East right-of-way until intersecting Avenue R. South of Avenue R, the alignment would continue for approximately 700 feet to a point east of Spruce Court, which is the southern limit of this subsection.

Central Subsection

The Refined SR14 alignment would continue south at-grade, crossing the current alignment of Sierra Highway near the intersection of East Avenue S. The alignment would cross Una Lake on an embankment. The alignment would also cross the San Andreas Fault Zone in the vicinity of Una Lake. Approximately 0.25 mile south of Una Lake, the Refined SR14 alignment would cross the current alignments of Sierra Highway and the Metrolink rail line, which would both be relocated within this Subsection.

In the 19 miles between Una Lake and Lang Station, the Refined SR14 alignment would traverse a series of short tunnels, viaducts, and at-grade sections.

After crossing the Vulcan Mine in at-grade and covered twin tunnels, the Refined SR14 Alternative would enter 12-mile-long twin tunnels with a maximum depth of approximately 2,080 feet beneath the SGMNM/ANF, the city of Santa Clarita and the Pacoima neighborhood of the city of Los Angeles. The twin tunnels would pass through the San Gabriel fault zone and the Sierra Madre fault zone.

The Refined SR14 alignment would emerge from tunnels east of the existing Antelope Valley Metrolink Corridor near Montague Street in the Pacoima neighborhood of Los Angeles. From Montague Street, Refined SR14 would continue south in a retained cut/trench, before and crossing the Los Angeles County Flood Control Channel and the realigned Metrolink track on viaduct. Continuing along the Metrolink Corridor, Refined SR14 would then travel southeast at-grade to the I-5 undercrossing. Continuing from the I-5 undercrossing, the Refined SR14 alignment would transition to a 1.0 mile cut-and-cover tunnel. The Refined SR14 Central Subsection would continue on different paths from this point (further described below).

Burbank Subsection

Lockheed Drive represents the northern limit of the Refined SR14 Burbank Subsection. From Lockheed Drive, the Refined SR14 alignment would continue in a mined or bored tunnel until passing Cohasset Street where would continue in a cut-and-cover box until entering the Burbank Airport Station. The Burbank Airport Station would be an underground station, beginning near Kenwood Street and extending to just north of Winona Drive and the Burbank Airport east/west runway.

Maintenance Facility

The Refined SR14 alignment would extend north of the Palmdale Subsection to Avenue L so as to include the area associated with a proposed maintenance facility as well as associated mainline rail alignment and ancillary features.

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3 PURPOSE AND SCOPE

This report identifies the potential impacts to existing utilities from the proposed HSR alignments and improvements associated with the project. The preliminary investigation will identify High Risk and Major utilities affected by the proposed HSR track corridor, HSR station and systems facilities, upgraded UPRR and Metrolink facilities, bridge structures overcrossings, roadway grade changes and alignments, and drainage. This report focuses on the High Risk and Major Utilities that present the most significant impacts to the proposed Refined SR14 alignment.

The Authority's definitions of High and Low Risk utilities were used in this assessment (per TM 2.7.4).

High Risk Utilities are defined as existing facilities transporting the following materials, whether or not they are encased:

- Petroleum Products (jet fuel, crude oil, gas oil, gasoline, etc.)
- Oxygen
- Chlorine
- Toxic or flammable gases or liquids
- Natural gas pipelines of any size
- Underground electric supply lines that conduct greater than 300 volts (without effectively grounded metal sheaths)
- Water in pressured pipeline

Other High Risk Utilities that could Disrupt the Operation of CHSTP:

- Sanitary Sewer in pressured pipeline
- Storm Drain in pressured pipeline.

Low Risk Utilities include:

- Sanitary Sewer gravity pipelines
- Storm Drain gravity pipelines
- Fiber Optics communication lines
- Telecommunications lines

Major Utilities are defined as subsurface, above ground or overhead facilities used for transmission (or subtransmission) regardless of size, shape or method of conveyance. These would include:

- Overhead and subsurface power transmission lines, 50 kV or greater
- Fiber Optic/Telecommunications transmission lines
- Sanitary Sewer trunk lines, 12-inch diameter or greater
- (Storm Drains are not included in this report; see the Hydrology and Hydraulics Report Alignment Refined SR14 PEPD Record Set Rev01, September 2019).

Minor Utilities are defined as any subsurface, above ground, or overhead facility used as distribution lines, or as service laterals to individual parcels or properties.

Note that not every utility type or size listed above exists in this subsection of the project.

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4 UTILITY INFORMATION COLLECTION

This section discusses the data collection efforts to map existing facilities and to identify the potential impacted facilities along the proposed Refined SR14 Alignment Alternative.

4.1 Data Sources

The design team reached out to both public and private utility owners whose facilities would potentially be affected by the proposed footprint of all three HSR alignment alternatives. The first solicitation effort to acquire as-built and utility service maps was to send letters, with exhibits depicting the proposed alignments, to all utility owners within the potential project footprint. The next course of action was to follow up with emails and phone calls if the utility owner was not responsive. A utility owner contact log has been established as a living document to record the due diligence taken during information gathering stage of this study (See Appendix C).

In addition, utility record drawings and as-built information will be collected from various sources including public agencies (navigatela.lacity.org), third-party drawings and respective stakeholders. Site visualization and Google Earth map were also used to identify and/or confirm various above ground and aerial facilities.

4.2 Utility Owners – As-Built Drawings and Service Maps

Existing utility record maps and as-built drawings can vary in accuracy, depending upon the time and method of preparation.

Ideally, we would have received as-built engineering drawings and electronic maps in GIS, Microstation, or AutoCAD from every utility owner. Unfortunately, this was rarely the case. We received information in a variety of formats, with varying levels of detail. Formats received from utility owners included:

- As-built engineering drawings (hard copy, pdf)
- Service maps (GIS, Microstation, AutoCAD)
- Facility maps (hard copy, pdf)
- Various forms of vague mapping with little to no detail (various)

From each owner who couldn't provide as-built drawings, we attempted to collect some form of mapping that showed the location of each pipe or conduit in relation to the street centerline, pipe size, and material.

4.3 Web-based Geographic Information Systems

The City of Palmdale's online GIS verifies the water utility service zoning within Palmdale. The primary water service providers are the Palmdale Water Department and Los Angeles County Waterworks Department. However, this GIS information does not specify where the pipes are relative to the street centerlines.

Los Angeles County Flood Control District's (LACFCD) GIS data shows existing storm drains without specifying distance from the street centerline. For known owners, the GIS provides a link to the as-built. In Palmdale, only sizes are shown and the owners are listed as unknown.

SCE's Distributed Energy Resource Interconnection Map (DERiM) shows its transmission and sub transmission line, distribution and subtransmission substations within the map. Information provided includes voltage rating, circuit name, substation, and system.

4.4 Google Map Overlays

SoCal Gas's website uses an overlay of the gas transmission and distribution line within Google Maps. It shows approximation of its utility alignment and no information of its pipe sizes.

The Center for Land Use Interpretation displays in three part web resources for LADWP facility information and location that overlay google maps within its website. Part 1 shows locations and brief information about LADWP source of power. Part 2 shows locations and brief information about receiving stations, converter stations, switching stations, and other control facilities. Part 3 shows location and brief information about LADWP local distribution stations within their network.

4.5 Google Map Street View

This method was used to verify above ground structures such as utility poles, above ground vaults and utility cabinets, maintenance holes for sanitary sewers and storm drains, and standpipes for water valves.

5 UTILITY IMPACTS

Utility impacts along the Refined SR14 Alignment Alternative are grouped into two risk categories, and two significant scale categories:

- High Risk Utilities
- Low Risk Utilities
- Major Utilities
- Minor Utilities

This report focuses on the evaluation of impacted High Risk and Major Utilities along the SR14 Alignment Alternative.

5.1 Significant Impacts

High Risk and Major Utilities as listed above that may impact the operations are defined as “Significant Impacts”. High Risk utilities identified in this rail alignment of the project include natural gas lines, petroleum products, underground power, and pressurized water lines. “Major” refers to Low Risk Utilities that are also critical in transmission of services. Major utilities identified in this rail alignment of the project include gravity sanitary sewer trunk lines and overhead power transmission lines.

Reference Table 5-1 for the total count of “Significant Impacts.” For more detailed information, see the utility logs in Appendix B.

Table 5-1 Significant Utility Impacts

	REFINED SR14
All High Risk	277
Major Low Risk	163
Total	440

5.2 High Risk

High Risk utilities are defined as petroleum products, oxygen, chlorine, toxic or flammable gases or liquids, all sizes of natural gas pipelines, underground power supplies, pressurized water pipelines, and pressurized sewers. For the list of all high-risk utilities within the footprint, see Appendix B. Ongoing updates to the utility composite sheet will reflect updates to this report.

5.2.1 Petroleum Products (Oil, Gasoline, Crude)

Utility map reveals a notable impacted two oil lines within San Fernando Road. The owner of 20-inch oil line is Plains All American Pipeline and lies within the Metrolink right of way. The impact area are from the Sheldon Street and San Fernando Road grade change extending 2200 feet. Another grade change at Tuxford Street and San Fernando Road could impact up to 800 feet of the oil line.

The second impact is to the 8-inch idle oil line owned by Exxon-Mobil. It lies within the City of Los Angeles right of way. The impacted utility extends 2200 feet at Sheldon Street and San Fernando Road grade change and 800 feet at the Tuxford Street and San Fernando Road grade change.

Table 5-2 Oil Line Impacts

	REFINED SR14
Oil	12

5.2.2 Natural Gas

Utility maps in Palmdale indicates a 10-inch transmission line within the longitude of East Avenue O and veers south 10 feet east offset from Lockheed Advanced Development property line. One 6-inch diameter high pressure distribution line along East Avenue Q. A notable impacted natural gas line are the two 30-inch transmission line along East Avenue S. The Southern California Gas Company owns this pipeline.

Within the City of Los Angeles and City of Burbank area, the impacted existing SCG gas distribution mains ranges from 8-inch to 12-inch. See the table below for the total count of impacted natural gas lines. Refer to Appendix B for more detailed information.

Table 5-3 Natural Gas Impacts

	REFINED SR14
Natural Gas	76

5.2.3 Water Utilities

Several waterlines will be impacted by the footprint: the proposed HSR alignments, the proposed Palmdale Station, Burbank Station, and the associated roadway network realignments. The owners of the impacted facilities include Palmdale Water District, Los Angeles County Waterworks District 40 – Region 34 and District 37, Los Angeles Department of Water and Power – Water Services (LADWP-WS), Burbank Water and Power (BWP), and Metropolitan Water District (MWD). Both transmission and distribution lines are included because water is defined as high risk, therefore all water pipes are considered to have significant impacts. Wholesale water agency MWD is impacted and crucial to cities water supply. Utility sizes vary from 8-inch to 48-inch diameter.

Reference Table 5-3 for the total count of impacted water lines. For more detailed information, see the utility logs in Appendix B.

Table 5-3 Water Line Impacts

	REFINED SR14
Water Lines	187

5.2.4 Underground Power Utilities

Impacted underground power identified from City of Los Angeles substructure map lies at Tuxford Street and San Fernando Boulevard under I-5 Freeway. The owner of the impacted facility is Los Angeles Water and Power – Power Services. The voltage rating is not verified; however, conduit counts of the underground power is noted on substructure map.

Reference Table 5-4 for the total count of impacted underground power lines. For more detailed information, see the utility logs in Appendix B

Table 5-4 Underground Power Line Impacts

	REFINED SR14
UG Power Lines	2

5.3 Major Utilities

Based on the utility research conducted, two types of major utilities were identified along the Refined SR14 Alignment Alternative: overhead power and trunk sanitary sewers.

5.3.1 Overhead Power Facilities

The existing overhead power transmission/sub-transmission lines crossing the proposed HSR alignment and road realignments have been identified as having potential impacts by the project. These overhead lines are 66kV facilities that belongs to SCE.

Table 5-5 depicts the total count of impacted power transmissions. For more detail information, see the utility logs in Appendix B.

Table 5-5 Overhead Power Line Impacts

	REFINED SR14
OH Power Lines	80

5.3.2 Sanitary Sewer Transmission and Collection lines

Similarly, several sanitary sewers will be impacted by the footprint: the proposed SR14 alignment, the proposed Palmdale Station, the proposed Burbank Station, the associated roadway network realignments, and differential grading. These trunk sewers, 12-inch diameter and greater, are owned and operated by the City of Palmdale Sanitary Maintenance District and City of Los Angeles.

Reference Table 5-6 for total count of impacted major sewer lines. For more detail information, see the utility logs in Appendix B.

Table 5-6 Sanitary Line Impacts

	REFINED SR14
San Sewer Lines	83

5.4 Other Significant Utility Related Facilities

Based on the utility research conducted, facilities crucial for the operation of the city’s infrastructure are affected by the proposed HSR construction. These facilities are power receiving station, potable water trunk line feeder and control structure, and whole sale water supply connection. The impacted facilities are recommended for an advance relocation to continue uninterrupted services to the city.

5.4.1 SCG Control Structure

The proposed HSR alignment partially impacts the existing SCG Control Structure 550 feet east of East Avenue S and East 10 Street intersection in Palmdale. The proposed East Avenue S realignment swerves north offset to the existing East Avenue S between East 5th Street and Windy Creek Street. The proposed northerly edge of sidewalk encroaches up to 25 feet from SCG’s existing property line with potential impacts to SCG’s control station appurtenances.

5.4.2 Palmdale Ditch Enclosure

The proposed HSR alignment impacts the existing Palmdale Water District Ditch Enclosure. The 48-inch RCP ditch enclosure conveys water shed run-off from Little Rock Reservoir to Lake Palmdale.

5.4.3 LADWP-PS Transmission Tower at RS-M

The proposed HSR alignment passes two existing transmission power towers within the LADWP receiving station at San Fernando Road and Sheldon Street. The power towers connect to the power corridor adjacent to Tujunga Wash channel which leads to the Fulton Distribution Station (DS-62). LADWP-PS did not disclose its voltage rating; however, the Center for Land Use Interpretation indicates the transmission power lines ranges from 115-230 kV and power line to the distribution station has a step-down to 34.5 kV. The proposed CHSR track is 4’-10” above existing grade. The clearance required for rail with OCS and 550kV Transmission line is 34 feet from track (Case 2,

Colum G per CPUC Table 1). Verify in the next phase of the design the lowest transmission crossing to insure the clearance are met.

5.4.4 Permitting

All impacted utilities will be relocated within the project footprint, as indicated in the Composite Utility Plans package. Based on our investigation with various agencies, for moving the project forward to the construction, various utility agency permits or approvals shall be required. Completion of permit applications will be part of a subsequent design phase. Table 5-7 summarizes some of the major agency's permits or approvals required.

Table 5-7 Permits or Approvals for Refined SR14 Alignment Alternative

Agency	Permits and Approval	Comments
Authority	Refer to Caltrans Encroachment Permits (Form TR-0100): 1.Encroachment Permit Fee Calculation Sheet 2. Fee Schedule for type of encroachment and access. 3.Encroachment Permit Check List	
SCRRRA (Metrolink)	1.Written Statement of reasoning , location and duration for Encroachment 2.Application for Encroachment Permits 3. Plan and Profile drawings 4.Schedule 5.Existing License Agreement	
City of Palmdale	Encroachment Permits W/Traffic Control Plan (To Building and Safety)	
Private Parcel (within Palmdale)	Easement Agreement (To City of Palmdale Engineering)	
Los Angeles County Public Works (Land Development Division)	Pre-Application with 4 set of plan	Unincorporated Areas within Los Angeles County.
City of Los Angeles	1. Construction "A" Permit (water and gas meter) 2. Construction "B" Permit (installation of sewer and storm drains) 3. Excavation "U" Permits (trenching and shoring)	
CALTRANS	Encroachment Permits (refer to CALTRANS utility permit Codes)	
City of Burbank	1. Excavation/Construction Permit 2. Utility Excavation Permit	

5.5 Operation and Maintenance

The facility relocation concept has been incorporated with the consideration to maintain undisrupted operation to the Authority and its ancillaries. In order to provide a safe environment for operation of the HSR project, minimize the disruption to the traveling public, and assure safety of Authority personnel and patrons during its operations, all proposed utility maintenance access, vault, and appurtenances will be located outside of the Authority's right of way.

6 REFERENCES

The Center for Land Use Interpretation Website: <http://www.clui.org/section/ladwp-power>

CHSTP In-Progress Draft Technical Memorandum Designer's Responsibilities and Utility Requirements for 15% Design Level TM 2.7.4, November 20, 2008.

State of California Public Utilities Commission, General Order No. 95 (Overhead Electric Line Construction):

<http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M146/K646/146646565.pdf>, January 2015.

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Appendix A: Utility Contact Information

Refined SR14 Alignment – Utility Contact Information

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
1	SENER	Los Angeles Department of Water and Power (LADWP)	Charles Dunn	Engineer of Underground Structures Group	111 N. Hope Street, Room 1031	Los Angeles, CA 90012	(213) 367-2715	Charles.Dunn@LADWP.Com
2	SENER	Los Angeles Department of Public Works (LADPW)	Daryll Chenoweth	Utility Coordination Unit, Head	900 S.Fremont Ave	Alhambra, CA 91803	(626) 458-3109	dchenowe@dpw.lacounty.gov
3	SENER	City of Palmdale	Jim Deyo	Department of Public Works	38250 Sierra Hwy	Palmdale, CA 93550	(661) 267-5347	jdeyo@cityofpalmdale.org
4	SENER	Palmdale Water District	Mike West	Engineering Design Technician	2029 E Avenue Q	Palmdale, CA 93550	(661)-947-1022	mwest@paldalewater.org
5	SENER	Southern California Gas (SCG) - Transmission	Chris Coria Estafania Sanchez Rosalyn Squires Carlos Gaeta		9400 Oakdale Ave	Chatsworth, CA 91311	818-701-3253 (Chris Coria) (818) 701-6679 (818) 701-3474 (Carlos)	Ccoria@semprautilities.com cagaeta@semprautilities.com rsquires@semprautilities.com
6	SENER	AT&T Distribution	Mary Ramos		600 East Green St	Pasadena, CA 91101	(510) 645-2929	ma2797@att.com
7	SENER	AT&T Transmission (Telephone)	Joseph Forkert Walter Westriuk		22311 Brookhurst St, Suite 203	Huntington Beach, CA 92646	(714) 963-7964	joef@forkertengineering.com
8	SENER	AT&T Transmission	Maria Guzman		420 S Grand Ave, RM 707	Los Angeles, CA 90071	(213) 787-9996	mg1371@att.com
9	SENER	Time Warner Cable (Charter)	Dave Bell		3041 E. Mira Loma Ave	Anaheim, CA 92806	(714) 591-4878	dave.bell@charter.com
10	SENER	Time Warner Cable (Telephone)	Dianell Caamano		41551 10th St West	Palmdale, CA 93551	(661) 259-6909	dianell.caamano@twcable.com
11	SENER	State of California, Department of Water Resources	Jaime Desantiago	Project Engineer	P.O. Box 1187	Pearblossom, CA 93553	(661) 994-8574	jdes@water.ca.gov
12	SENER	Los Angeles County Sanitary District (LACSD)	Koesen Lipock	Engineer	1955 Workman Mill Road	Whittier, CA 90601	(562) 908-4288	Klipock@lacsd.org

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
13	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	Sam Queszada	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-5100	squeszada@dpw.lacounty.gov
14	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	Hank Fung	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-3980	hfung@dpw.lacounty.gov
15	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	Jeff Chow	Engineer	1000 S Fremont Ave	Alhambra, CA 91803	(626) 300-4753	jchow@dpw.lacounty.gov
16	SENER	Los Angeles County Water Works	Jason Kitto	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 300-3337	jkitto@dpw.lacounty.gov
17	SENER	Newhall County Water	Josh Jenkins	Engineer	PO Box 220970	Newhall, CA 91322	(661) 259-3610	jjenkins@ncwd.org
18	SENER	Air Touch Cellular (Telephone)	Matthew Kang	Engineer	10640 Sepulveda Blvd, Ste 1	Mission Hills, CA 91345	(818) 898-2352	matthew.kang@cableeng.com
19	SENER	Metropolitan Water District	Shoreh Zareh	Engineer	700 N Alameda St	Los Angeles, CA 90012	(213) 217-7474	szareh@mwdh20.com
20	SENER	Plains All American Pipeline (Oil)	Becky Sitton	Engineer	5900 Cherry Ave	Long Beach, CA 90805	(562) 728-2817	bsitton@paalp.com
21	SENER	T-Mobile (Telephone)	Gregg Lake	Engineer	7543 Woodley Ave, Suite 201	Van Nuys, CA 91406	(818) 840-0808	glake@synergy.cc
22	SENER	XO Communications (Telephone) - Los Angeles	Matt Bergine	Engineer	1924 Deere Ave	Santa Ana, CA 92705	(949) 417-7841	matt.bergine@xo.com
23	SENER	Southern California Gas (SCG) - Distribution	Timothy Bruce	Engineer	9400 Oakdale Ave,	Chatsworth, CA 91311.	(818) 701-3335	tbruce@semprautilities.com
24	SENER	Level 3 Communications (Telephone)	Felix Vigil		818 W 7th St, Suite 700	Los Angeles, CA 90017	(213) 929-2126	felix.vigil@level3.com
25	SENER	Southern California Edison (SCE) - Overhead Power Transmission	Kim Gurule		14799 Chestnut St	Westminster, CA 92683	(714) 796-9932	maprequests@sce.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
26	SENER	Southern California Edison (SCE) - Telecom	Tommy Savage		501 S Marengo Ave	Alhambra, CA 91802	(626) 308-6186	tommy.savage@sce.com

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Appendix B: High Risk And Major Utility Information Log

Refined SR14 Alignment – Utility Information Log – (High Risk & Major Utility)

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
1	SENER	SO CAL GAS	REFINED SR14	UT-C4001-PLM	102+50	Sierra Hwy/E Ave O	NATURAL GAS	10" H SL	PSI	715'		TO BE RELOCATED
2	SENER	SO CAL GAS	REFINED SR14	UT-C4002-PLM, UT-C4003-PLM,	122+50 to 156+35	Sierra Hwy/Lockheed Way	NATURAL GAS	4" PA	PSI	4583'		TO BE REMOVED
3	SENER	SO CAL GAS	REFINED SR14	UT-C4002-PLM	129+16	Lockheed Way	NATURAL GAS	3" PA	PSI	484'		TO BE REMOVED
4	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4002-PLM	129+20	Lockheed Way	SEWER	18" VCP	CFS	1704'		TO BE RELOCATED
5	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4002-PLM	129+50	Lockheed Way	SEWER	12" VCP	CFS	1738'		TO BE REMOVED
6	SENER	LACWD	REFINED SR14	UT-C4002-PLM	129+80	Lockheed Way	WATER	20" DIP	PSI	1015'		TO BE RELOCATED
7	SENER	SCE	REFINED SR14	UT-C4003-PLM, UT-C4502-PLM, UT-C4503-PLM, UT-C4504-PLM	153+10	Sierra Hwy/Rancho Vista Blvd	OH POWER	12/66 kV	kV	5360'		TO BE RELOCATED
8	SENER	PALMDALE WD	REFINED SR14	UT-C4003-PLM, UT-C4503-PLM	156+50	Sierra Hwy/Rancho Vista Blvd	WATER	12" STL	PSI	2750'		TO BE RELOCATED
9	SENER	PALMDALE WD	REFINED SR14	UT-C4004-PLM	175+20 to 198+00	Sierra Hwy/5th St	WATER	12" ACP	PSI	943'		TO BE RELOCATED
10	SENER	PALMDALE WD	REFINED SR14	UT-C4004-PLM, UT-C4005-PLM	190+00 to 196+00	Sierra Hwy	WATER	8" DIP	PSI	747'		TO BE REMOVED
11	SENER	LACSD	REFINED SR14	UT-C4004-PLM	191+70	Sierra Hwy	SEWER	42" VCP	PSI	1370'		TO BE RELOCATED
12	SENER	PALMDALE WD	REFINED SR14	UT-C4005-PLM	196+50 to 210+00	Sierra Hwy/5th St	WATER	12" DIP	PSI	2037'		TO BE RELOCATED
13	SENER	PALMDALE WD	REFINED SR14	UT-C4005-PLM	202+50	Clock Tower Plaza Dr/Ave P-14	WATER	8" DIP	PSI	710'		TO BE REMOVED
14	SENER	SCE	E1	UT-C4005-PLM	208+50	E Ave O-8/ Sierra Hwy	OH POWER	66 kV	kV	1000'		TO BE RELOCATED
15	SENER	SCE	REFINED SR14	UT-C4005-PLM	208+50	Sierra Hwy/Ave Q	OH POWER	66 kV	kV	2846'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
16	SENER	LACSD	REFINED SR14	UT-C4005-PLM	209+90	5th St/Ave Q/Sierra Hwy	SEWER	15" VCP	CFS	1220'		PROPOSED JACK AND BORE WITH CASING
17	SENER	LACSD	REFINED SR14	UT-C4005-PLM	209+90	5th St/ Ave Q/Sierra Hwy	SEWER	18" VCP	CFS	1184'		PROPOSED JACK AND BORE WITH CASING
18	SENER	PALMDALE WD	REFINED SR14	UT-C4005-PLM	210+20	5th St/ Ave Q/Sierra Hwy	WATER	12" DIP	PSI	1800'		RELOCATED W/JACK AND BORE
19	SENER	PALMDALE WD	REFINED SR14	UT-C4005-PLM		Sierra Hwy	WATER	12" ACP	PSI			PROTECT IN PLACE
20	SENER	CITY OF PLAMDALE	REFINED SR14	UT-C4005-PLM	210+00 to 240+50	Sierra Hwy	SEWER	10" VCP	CFS	3090'		TO BE REMOVED
21	SENER	SO CAL GAS	REFINED SR14	UT-C4005-PLM	209+80	Ave Q/Sierra Hwy	NATURAL GAS	6"	PSI	1725'		RELOCATE PROPOSED JACK AND BORE WITH CASING
22	SENER	PALMDALE WD	REFINED SR14	UT-C4006-PLM	220+00 to 245+00	Sierra Hwy	WATER	12" STL	PSI	2400'		TO BE REMOVED
23	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4006-PLM, UT-C4004-PLM, UT-C4506-PLM	240+60	Ave 9	SEWER	8" VCP	CFS	3041'		TO BE RELOCATED
24	SENER	PALMDALE WD	REFINED SR14	UT-C4006-PLM	240+50	6th St/Ave Q-9	WATER	8" DIP	PSI	190'		TO BE RELOCATED
25	SENER	PALMDALE WD	REFINED SR14	UT-C4006-PLM	238+50	6 th St	WATER	12" DIP	PSI	2515'		TO BE RELOCATED
26	SENER	PALMDALE WD	REFINED SR14	UT-C4006-PLM, UT-C4507-PLM	237+90	Palmdale Blvd	WATER	12" PVC	PSI	1393'		TO BE REMOVED
27	SENER	PALMDALE WD	REFINED SR14	UT-C4006-PLM	237+50 to 240+00	Palmdale Blvd/Sierra Hwy	WATER	16" DIP	PSI	205'		TO BE RELOCATED
28	SENER	PALMDALE WD	REFINED SR14	UT-C4007-PLM, UT-C4509-PLM, UT-C4510-PLM	245+00 to 270+00	6 th St	WATER	12" DIP	PSI	2790'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
29	SENER	SCE	REFINED SR14	UT-C4007-PLM, UT-C4509-PLM, UT-C4510-PLM	265+60	East Ave R	OH POWER	66 kV	kV	3166'		TO BE RELOCATED
30	SENER	PALMDALE WD	REFINED SR14	UT-C4007-PLM	245+00 to 270+00	6 th St	WATER	12" PVC	PSI	848'		TO BE RELOCATED
31	SENER	PALMDALE WD	REFINED SR14	UT-C4007-PLM	265+50	East Ave	WATER	12" DIP	PSI	1262'		TO BE RELOCATED
32	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4007-PLM	245+00 to 270+00	6 th St	SEWER	8" VCP	CFS	2225'		TO BE RELOCATED
33	SENER	PALMDALE WD	REFINED SR14	UT-C4006-PLM		Ave Q	WATER	12"		4703'		TO BE RELOCATED
34	SENER	AT&T	REFINED SR14	UT-C4005-PLM, UT-C4002-PLM	195+00 to 220+00	Sierra Hwy	FIBER OPTIC	4-1.5"		4012'		PROTECT IN PLACE
35	SENER	AT&T	REFINED SR14	UT-C4006-PLM	220+00 to 245+00	Sierra Hwy	FIBER OPTIC	4-1.5"		3012'		PROTECT IN PLACE
36	SENER	PALMDALE WD	REFINED SR14	UT-C4501-PLM, UT-C4502-PLM	156+50	3 rd St E/Rancho Vista Blvd/Fairway Dr	WATER	14" STL	PSI			PROTECT IN PLACE
37	SENER	PALMDALE WD	REFINED SR14	UT-C4508-PLM,		East Ave R	WATER	12" DIP	PSI			PROTECT IN PLACE
38	SENER	SCE	REFINED SR14	UT-C4508-PLM,		East Ave R	OH POWER	66 kV	kV			PROTECT IN PLACE
39	SENER	PALMDALE WD	REFINED SR14	UT-C4505-PLM		Technology Dr/8 th St	WATER	12" DIP	PSI			PROTECT IN PLACE
40	SENER	SCE	REFINED SR14	UT-C4511-PLM	110+00 to 130+00	Ave Q	OH POWER	66 kV	kV	2000'		TO BE RELOCATED
41	SENER	LACSD	REFINED SR14	UT-C4005-PLM	210+00	Ave Q/Sierra Hwy W of Cl	SEWER	10"	CFS	1200'		TO BE RELOCATED
42	SENER	LACSD	REFINED SR14	UT-C4005-PLM	145+00	Ave Q/Sierra Hwy E of CL	SEWER	8" VCP	CFS	500'		TO BE REMOVED
43	SENER	AT&T	REFINED SR14	UT-C4001-PLM, UT-C4003-PLM	100+00 to 145+00	Sierra Hwy	FIBER OPTIC	4-1.5"		4500'		PROTECT IN PLACE
44	SENER	AT&T	REFINED SR14	UT-C4001-PLM,	100+00 to 145+00	Sierra Hwy	FIBER OPTIC	UNKN		4500'		PROTECT IN PLACE
45	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4002-PLM	122+00 to 145+00	6 th St/Ave Q/Sierra Hwy	SEWER	15" VCP	CFS	2300'		TO BE REMOVED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
46	SENER	PALMDALE WD	REFINED SR14	UT-C4002-PLM	125+00 to 134+00	Sierra Hwy/Ave Q/Palmdale Blvd	WATER	16" DIP	PSI	900'		TO BE REMOVED
47	SENER	SO CAL GAS	REFINED SR14	UT-C4002-PLM	120+00 to 130+00	Sierra Hwy/E Ave O	NATURAL GAS	10" H SL	PSI	1000'		PROTECT IN PLACE
48	SENER	SCE	REFINED SR14	UT-C4003-PLM	153+00	Sierra Highway / Rancho Vista Blvd	UG POWER	12/66 kV	kV	591'		TO BE RELOCATED
49	SENER	TWC	REFINED SR14	UT-C4003-PLM	156+75	Rancho Vista Blvd	TELE	6-2"		1303'		TO BE RELOCATED
50	SENER	LACSD	REFINED SR14	UT-C4005-PLM	210+00	Sierra Hwy/E Ave O-8	SEWER	18" VCP	CFS	1704'		PROTECT IN PLACE
51	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4005-PLM		5th St/ Ave Q/Sierra Hwy	SEWER	8"VCP	CFS			TO BE RELOCATED
52	SENER	PALMDALE WD	REFINED SR14	UT-C4005-PLM UT-C4006-PLM	146+00	Sierra Hwy/Ave Q/Palmdale Blvd	WATER	4"	PSI	3000'		TO BE REMOVED
53	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4006-PLM	220+00 to 245+00	6 th St E/ E Palmdale Blvd	SEWER	10"	PSI	5000'		TO BE REMOVED
54	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4006-PLM	240+50	6 TH St E/ E Palmdale	SEWER	8"	PSI	250'		TO BE RELOCATED
55	SENER	LACSD	REFINED SR14	UT-C4006-PLM	238+00	E Palmdale Blvd	SEWER	8"	PSI	400'		TO BE REMOVED
56	SENER	PALMDALE	REFINED SR14	UT-C4006-PLM	230+20	Ave Q SIX/Fifth St E	WATER	6"	PSI	900'		TO BE REMOVED
57	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4006-PLM	230+20	Ave Nine	SEWER	8"	PSI	300'		TO BE RELOCATED
58	SENER	PALMDALE WD	REFINED SR14	UT-C4006-PLM	221+00	Ave Q Threel	WATER	10"	PSI	580'		TO BE REMOVED
59	SENER	AT&T	REFINED SR14	UT-C4007-PLM	245+00 to 270+00	Sierra Hwy	FIBER	4-1.5"	PSI	3500'		PROTECT IN PLACE
60	SENER	AT&T	E2	UT-C4007-PLM	245+00 to 270+00	Sierra Hwy	FIBER OPTIC	4-1.5"		3500'		TO BE RELOCATED
61	SENER	PALMDALE WD	REFINED SR14	UT-C4007-PLM	249+80	Sierra Hwy	WATER	8"	PSI	190'		REMOVE/ RECONNECT
62	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4007-PLM	255+00	Sierra Hwy	SEWER	8"	PSI	150'		REMOVE/ RECONNECT

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
63	SENER	PALMDALE WD	REFINED SR14	UT-C4007-PLM	255+00	Sierra Hwy	WATER	8"	PSI	150'		REMOVE/ RECONNECT
64	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4007-PLM	257+20	Sierra Hwy	SEWER	8"	PSI	500'		REMOVE/ RECONNECT
65	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4007-PLM	258+80	Sierra Hwy	SEWER	8"	PSI	650'		REMOVE/ RECONNECT
66	SENER	PALMDALE WD	REFINED SR14	UT-C4007-PLM	258+80	Sierra Hwy	WATER	8"	PSI	400'		REMOVE/ RECONNECT
67	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4007-PLM	263+50	Sierra Hwy	SEWER	8"	PSI	600'		TO BE REMOVED
68	SENER	PALMDALE WD	REFINED SR14	UT-C4007-PLM	264+00	East Ave R	WATER	8"	PSI	3000'		TO BE RELOCATED
69	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4007-PLM	265+00	Sierra Hwy	SEWER	8"	PSI	300'		TO BE RELOCATED
70	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4007-PLM	264+00	Sierra Hwy	SEWER	8"	PSI	300'		PROPOSED
71	SENER	PALMDALE WD	REFINED SR14	UT-C4007-PLM	259+00	Sierra Hwy	WATER	8"	PSI	390'		REMOVE/RE CONNECT
72	SENER	PALMDALE WD	REFINED SR14	UT-C4501-PLM		Rancho Vista Blvd	WATER		PSI	1100'		PROTECT IN PLACE
73	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4501-PLM		Rancho Vista Blvd	SEWER		CFS	1850'		PROTECT IN PLACE
74	SENER	SCE	REFINED SR14	UT-C4501-PLM		Rancho Vista Blvd	OH POWER	12/66 KV	KV	3000'		PROTECT IN PLACE
75	SENER	TWC	REFINED SR14	UT-C4502-PLM		Rancho Vista Blvd	TELECOM	6-2"	PSI	2440'		PROTECT IN PLACE
76	SENER	UNKNOWN	REFINED SR14	UT-C4502-PLM		Third St	SEWER	UNKNO WN	PSI	1310'		PROTECT IN PLACE
77	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4503-PLM		Rancho Vista Blvd	SEWER	15"	PSI	2300'		PROTECT IN PLACE
78	SENER	PALMDALE WD	REFINED SR14	UT-C4503-PLM		Rancho Vista Blvd	WATER	12"	PSI	2000'		PROTECT IN PLACE
79	SENER	TWC	REFINED SR14	UT-C4503-PLM		Rancho Vista Blvd	TELE	6-2"	PSI	1500'		PROTECT IN PLACE
80	SENER	TWC	REFINED SR14	UT-C4503-PLM		Rancho Vista Blvd	TELE	6-2'	PSI	50'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
81	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4504-PLM		Rancho Vista Blvd	SEWER	15"	CFS	1275'		PROTECT IN PLACE
82	SENER	LACSD	REFINED SR14	UT-C4505-PLM		Technology Dr	SEWER	42"	PSI	3000'		PROTECT IN PLACE
83	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4507-PLM		E Palmdale Blvd/Tenth St	SEWER	8"	CFS	980'		TO BE REMOVED
84	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4507-PLM		E Palmdale Blvd/ Tenth St	SEWER	8"	CFS	1000'		TO BE RELOCATED
85	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4508-PLM		East Ave R	SEWER	10"	PSI	660'		PROTECT IN PLACE
86	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4509-PLM		East Ave R	SEWER	10"	PSI	2000'		PROTECT IN PLACE
87	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4510-PLM		AVE R	SEWER	8"	PSI	620'		TO BE RELOCATED
88	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4510-PLM		AVE R	SEWER	8"	PSI	280'		PROPOSED
89	SENER	SCE	REFINED SR14	UT-C4512-PLM		AVE Q	OH POWER	66 KV	KV	150'		TO BE RELOCATED
90	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4006-PLM	224+00 to 227+00	Ave Q/ 5 th St	SEWER	8"	PSI	750'		TO BE REMOVED
91	SENER	UNKNOWN	REFINED SR14	UT-C4006-PLM	237+80	Palmdale Blvd	UG ELECTRIC	UNKNO WN	PSI	700'		TO BE RELOCATED
92	SENER	PALMDALE WD	REFINED SR14	UT-C4006-PLM	237+80	Palmdale Blvd	WATER	12" STL	PSI			TO BE REMOVED
93	SENER	AT&T	REFINED SR14	UT-C4002-PLM	120+00 to 145+00	Sierra Highway	FIBER OPTIC	UNKNO WN	PSI	1600'		PROTECT IN PLACE
94	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4002-PLM	127+00 to 134+00	Sierra Highway	SEWER	15"	PSI	450'		TO BE REMOVED
95	SENER	AT&T	REFINED SR14	UT-C4002-PLM	129+00	Lockheed Way	FIBER OPTIC	4-1.5"	KV	1000'		TO BE RELOCATED
96	SENER	AT&T	REFINED SR14	UT-C4004-PLM	175+00	Sierra Highway	FIBER OPTIC	4-1.5'	KV	1000'		TO BE RELOCATED
97	SENER	PALMDALE WD	REFINED SR14	UT-C4005-PLM	210+00 to 220+00	Sierra Hwy	WATER	12"	PSI	1500'		TO BE REMOVED
98	SENER	SCG	REFINED SR14	UT-C4502-PLM		Rancho Vista Blvd	GAS	4"	PSI	200'		TO BE REMOVED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
99	SENER	PALMDALE WD	REFINED SR14	UT-C4506-PLM		Palmdale Blvd	WATER	12"	PSI	1100'		PROTECT IN PLACE
100	SENER	PALMDALE WD	REFINED SR14	UT-C4507-PLM		Palmdale WD	WATER	12"	PSI	900'		TO BE RELOCATED
101	SENER	PALMDALE WD	REFINED SR14	UT-C4008-S14	290+50	6 th St E/Ave R-8/Sierra Hwy	WATER	12" STL	PSI	582'		TO BE RELOCATED
102	SENER	PALMDALE WD	REFINED SR14	UT-C4008-S14	291+00 To 320+00	Sierra Hwy/Ave R-8	WATER	18" STL	PSI	890'		PROTECT IN PLACE
103	SENER	PALMDALE WD	REFINED SR14	UT-C4008-S14	291+00 To 295+00	Sierra Hwy/Ave R-8	WATER	16" STL	PSI	380'		PROTECT IN PLACE
104	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	318+29	Sierra Hwy/Ave S	WATER	16" DIP	PSI	1670'		TO BE RELOCATED
105	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	301+50 to 317+22	Sierra Hwy/E Ave S	WATER	18" DIP	PSI	2242'		TO BE RELOCATED
106	SENER	SPRINT	REFINED SR14	UT-C4010-S14	296+00 to 363+50	Sierra Hwy/1565' north of E Ave S	FIBER OPTICS	4"		6532'		TO BE RELOCATED
107	SENER	SCE	REFINED SR14	UT-C4011-S14	316+80	E Ave S/Sierra Hwy	OH POWER	UNKNO WN		3402'		TO BE RELOCATED
108	SENER	AT&T	REFINED SR14	UT-C4011-S14	317+17	E Ave S/Sierra Hwy	TELECOM			638'		TO BE RELOCATED
109	SENER	PALMDALE WD	REFINED SR14	UT-C4513-S14	317+22	E Ave S/Sierra Hwy	WATER	24"	PSI	1628'		TO BE RELOCATED
110	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	317+60	E Ave S/Sierra Hwy	WATER	42" SCCP	PSI	867'		TO BE RELOCATED
111	SENER	SCG	REFINED SR14	UT-C4009-S14, UT-C4511-S14, UT-C4513-S14	316+56	E Ave S/Sierra Hwy	NATURAL GAS	30"	PSI	2401'		TO BE RELOCATED
112	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	318+00	E Ave S/Sierra Hwy	WATER	12"	PSI	469'		TO BE RELOCATED
113	SENER	SCG	REFINED SR14	UT-C4009-S14	317+91	E Ave S/Sierra Hwy	NATURAL GAS	30"	PSI	2417'		TO BE RELOCATED
114	SENER	SCG	REFINED SR14	UT-C4511-S14, UT-C4009-S14	317+32	E Ave S	NATURAL GAS	4" PE	PSI	636'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
115	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	317+35	E Ave S/E 10 th St	WATER	24" STL	PSI	1054'		TO BE RELOCATED
116	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14, UT-C4513-S14	317+76	E Ave S/E 10 th St	WATER	16" STL	PSI	824'		TO BE RELOCATED
117	SENER	AT&T	REFINED SR14	UT-C4009-S14, UT-C4010-S14, UT-C4011-S14	318+00 to 363+65	Sierra Hwy/E Ave S	TELE			5649'		TO BE RELOCATED
118	SENER	AT&T	REFINED SR14	UT-C4513-S14	318+00	E 10 th St/E Ave S	TELE			520'		TO BE RELOCATED
119	SENER	SCG	REFINED SR14	UT-C4512-S14, UT-C4009-S14, UT-C4513-S14	307+19 To 317+28	E 10 th St/E Ave S	NATURAL GAS	10" H	PSI	1672'		TO BE RELOCATED
120	SENER	PALMDALE WD	REFINED SR14	UT-C4512-S14	308+96 To 319+08	E 10 th St/E Ave S	WATER	24"	PSI	1285'		TO BE RELOCATED
121	SENER	SCG	REFINED SR14	UT-C4512-S14, UT-C4513-S14	307+45 to 317+28	E 10 th St/E Ave S	NATURAL GAS	4" PE	PSI	1628'		TO BE RELOCATED
122	SENER	SCG	REFINED SR14	UT-C4009-S14, UT-C4010-S14	317+28 to 320+85	Sierra Hwy/E Ave S	NATURAL GAS	4" PD	PSI	571'		TO BE REMOVED
123	SENER	AT&T	REFINED SR14	UT-C4512-S14	309+00 to 317+42	Sierra Hwy/E Ave S	TELECOM			1022'		TO BE RELOCATED
124	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4512-S14, UT-C4009-S14	306+11 to 317+00	E 10 th St	SEWER	10" VCP	CFS	1293'		TO BE RELOCATED
125	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4009-S14, UT-C4513-S14	317+88	E Ave S	SEWER	8" VCP	CFS	330'		TO BE REMOVED
126	SENER	PALMDALE WD	REFINED SR14	UT-C4010-S14, UT-C4011-S14	318+15 to 364+11	Sierra Hwy	WATER	24" STL.	PSI	4727'		TO BE RELOCATED
127	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	318+27	Sierra Hwy / Ave S	WATER	20"	PSI	1700'		TO BE RELOCATED
128	SENER	SCE	REFINED SR14	UT-C4010-S14	327+25 to 365+60	Sierra Hwy	OH POWER	12Kv	Kv	4018'		TO BE RELOCATED
129	SENER	PALMDALE WD	REFINED SR14	UT-C4012-S14	370+17 to 379+76	Barrel Springs Rd	WATER	48" RCP	CFS	1410'		TO BE RELOCATED
130	SENER	PALMDALE WD	REFINED SR14	UT-C4515-S14	376+17	Barrel Springs Rd	WATER	8" STL	PSI	2783'		TO BE RELOCATED
131	SENER	PALMDALE WD	REFINED SR14	UT-C4012-S14	376+17 to 389+53	Barrel Spring Rd/Aspern St/Sierra Hills Lane	WATER	8" STL	PSI	1305'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
132	SENER	PALMDALE WD	REFINED SR14	UT-C4012-S14	383+23	Carob Court/Aspern St	WATER	8" STL	PSI	398'		TO BE REMOVED
133	SENER	PALMDALE WD	REFINED SR14	UT-C4012-S14	389+53	Sierra Hills Ln/Aspern St	WATER	6" STL	PSI	919'		TO BE RELOCATED
134	SENER	SCE	REFINED SR14	UT-C4515-S14	376+42	Barrel Spring Rd	OH POWER		Kv	2554'		TO BE RELOCATED
135	SENER	SCE	REFINED SR14	UT-C4028-S14	791+00	Red Rover Mine Rd	OH POWER		Kv	160'		TO BE RELOCATED
136	SENER	SCE	REFINED SR14	UT-C4029-S14	797+34	Sierra Hwy	OH POWER		Kv	276'		TO BE RELOCATED
137	SENER	LADWP-PS	REFINED SR14	UT-C4077-S14	2013+9	Branford St	OH POWER	UNK	Kv	1419'		TO BE RELOCATED
138	SENER	CITY OF LA	REFINED SR14	UT-C4077-S14	2013+39	Branford St	SEWER	12" VCP	CFS	1308'		TO BE RELOCATED
139	SENER	SCG	REFINED SR14	UT-C4077-S14	2013+27	Branford St	NATURAL GAS	2"	PSI	1150'		TO BE RELOCATED
140	SENER	CITY OF LA	REFINED SR14	UT-C4077-S14	2015+0	Branford St	SEWER	18"	PSI	80'		PROTECT IN PLACE
141	SENER	LADWP WS	REFINED SR14	UT-C4077-S14	2015+0	San Fernando Rd	WATER	8"	PSI	240'		TO BE RELOCATED
142	SENER	LADWP-PS	REFINED SR14	UT-C4078-S14	2044+07	San Fernando Rd	OH POWER	230 Kv	Kv	638'		TO BE RELOCATED
143	SENER	LADWP-PS	REFINED SR14	UT-C4078-S14	2044+54	San Fernando Rd	OH POWER	230 Kv	Kv	618'		TO BE RELOCATED
144	SENER	AT&T-SPRINT	REFINED SR14	UT-C4079-S14	2045+18 To 2077+00	San Fernando Rd	TELECOM	4-2"		1264'		TO BE RELOCATED
145	SENER	QWEST	REFINED SR14	UT-C4079-S14	2045+20 To 2070	San Fernando Rd	FIBER OPTICS	2-2"		1264'		TO BE RELOCATED
146	SENER	QWEST	REFINED SR14	UT-C4079-S14	2045+20 To 2070	San Fernando Rd	FIBER OPTICS	2-2"		1235'		PROTECT IN PLACE
147	SENER	PLAINS ALL AMERICAN PIPELINE	REFINED SR14	UT-C4079-S14,	2045+22 To 2070	San Fernando Rd	OIL	20"		1264'		TO BE RELOCATED
148	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14	2054+00 to 2057+32	San Fernando Rdwy/Sheldon St	SEWER	15" VCP	CFS	343'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
149	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14	2045+50 to 2063+00	San Fernando Rdwy/Sheldon St	SEWER	8" VCP	CFS	1950'		TO BE RELOCATED
150	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14	2054+00 to 2057+32	San Fernando Rdwy/Sheldon St	SEWER	15" VCP	CFS	123'		TO BE REMOVED
151	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14	1950+02 to 1951+62	San Fernando Rdwy	SEWER	8" VCP	CFS	160'		TO BE REMOVED
152	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14	1949+93	Sheldon St/San Fernando Rwy/San Fernando Rd	SEWER	18" VCP	CFS	178'		TO BE RELOCATED
153	SENER	SCG	REFINED SR14	UT-C4079-S14	2056+92 to 2071+66	Sheldon St/San Fernando Rdy/Wicks St	NATURAL GAS	3"	CFS	160'		TO BE RELOCATED
154	SENER	SCG	REFINED SR14	UT-C4079-S14	2057+50	Sheldon St	NATURAL GAS	12' (ABAN)	CFS			PROTECTED IN PLACE
155	SENER	SCG	REFINED SR14	UT-C4079-S14	2057+50	Sheldon St	NATURAL GAS	3"	CFS			PROTECTED IN PLACE
156	SENER	SCG	REFINED SR14	UT-C4079-S14	2057+50 to 2064+60	San Fernando Rd	NATURAL GAS	4"	CFS	710'		PROTECT IN PLACE
157	SENER	SCG	REFINED SR14	UT-C4077-S14	2015+00	Branford St	NATURAL GAS	2"	CFS	2100'		PROTECT IN PLACE
158	SENER	SCG	REFINED SR14	UT-C4077-S14	2012+50 to 2017+50	San Fernando Rd	NATURAL GAS	3"	CFS	480'		PROTECT IN PLACE
159	SENER	LADWP-WS	REFINED SR14	UT-C4079-S14	2045+0 to 2065+00	Sheldon St/San Fernando Rdwy	WATER	24" DIP	PSI	1264'		PROTECT IN PLACE
160	SENER	LADWP-WS	REFINED SR14	UT-C4079-S14	2045+0 to 2065+00	Sheldon St/San Fernando Rdwy	WATER	8" DIP	PSI	1235'		PROTECT IN PLACE
161	SENER	LADWP-WS	REFINED SR14	UT-C4079-S14	2057+43 to 2071+70	Sheldon St/San Fernando Rdy/Wicks St	WATER	8" DIP	PSI	1444'		TO BE RELOCATED
162	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14, UT-C4080-S14	2061+00 to 2071+76	San Fernando Roadway	SEWER	8" VCP	CFS	1072'		PROTECT IN PLACE

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163	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14	2064+50	Allegheny St Across	SEWER	8" VCP	CFS	100'		TO BE REMOVED
164	SENER	QWEST	REFINED SR14	UT-C4085-S14	2070+00	San Fernando Rd	FIBER OPTICS	2-2"		2.62 Miles		TO BE RELOCATED
165	SENER	LADWP-PS	REFINED SR14	UT-C4081-S14	2100+00	San Fernando Rd/Pendleton Ave	OH POWER		Kv	323'		TO BE RELOCATED
166	SENER	SCG	REFINED SR14	UT-C4081-S14	2112+00	North of Tuxford St/San Fernando Rd	NATURAL GAS	12"	PSI	865'		TO BE RELOCATED
167	SENER	SCG	REFINED SR14	UT-C4081-S14	2114+50	South of Tuxford St/San Fernando Rd	NATURAL GAS	4"	PSI	323'		TO BE RELOCATED
168	SENER	SCG	REFINED SR14	UT-C4081-S14	2114+50	North of Tuxford	NATURAL GAS	8"	PSI	523'		TO BE RELOCATED
169	SENER	CITY OF LA	REFINED SR14	UT-C4081-S14	2114+50	Tuxford St/San Fernando Rd	SEWER	12" VCP	CFS	193'		TO BE RELOCATED
170	SENER	CITY OF LA	REFINED SR14	UT-C4081-S14	2115+00	North of Tuxford St/San Fernando Blvd	SEWER	18" VCP	CFS	411'		TO BE REMOVED
171	SENER	LADWP-WS	REFINED SR14	UT-C4081-S14	2115+00	Tuxford St/San Fernando Rd	WATER	12"	PSI	861'		PROTECT IN PLACE
172	SENER	LADWP-WS	REFINED SR14	UT-C4082-S14	2115+00	San Fernando Blvd	WATER	12"	PSI	1442'		TO BE RELOCATED
173	SENER	MWD	REFINED SR14	UT-C4081-S14	2115+00	Tuxford St/San Fernando Blvd/Sunland Blvd	WATER	48"	PSI	2551'		TO BE RELOCATED
174	SENER	LADWP-PS	REFINED SR14	UT-C4082-S14	2129+00	San Fernando Blvd/Penrose St	OH POWER		Kv	640'		TO BE RELOCATED
175	SENER	SCG	REFINED SR14	UT-C4082-S14	2129+00	San Fernando Blvd/Penrose St	NATURAL GAS	4"	PSI	966'		TO BE RELOCATED
176	SENER	CITY OF LA	REFINED SR14	UT-C4082-S14	20052+53	San Fernando Blvd/Penrose St	SEWER	10" VCP	CFS	853'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
177	SENER	GAS	REFINED SR14	UT-C4082-S14	20067+18	Olinda St/San Fernando Blvd/San Fernando Rd	NATURAL GAS	2"	PSI	187'		TO BE RELOCATED
178	SENER	LADWP-PS	REFINED SR14	UT-C4083-S14	2145+00 to 2170+00	Sunland Blvd/San Fernando Blvd/San Fernando Rd	OH POWER		Kv	2524'		PROTECT IN PLACE
179	SENER	LADWP-WS	REFINED SR14	UT-C4083-S14	2145+00 to 2161+46	Sunland Blvd/San Fernando Blvd/San Fernando Rd	WATER	8"	PSI	1670'		PROTECT IN PLACE
180	SENER	CITY OF LA	REFINED SR14	UT-C4083-S14	20085+09	Sunland Blvd/San Fernando Blvd/San Fernando Rd	SEWER	24" VCP	CFS	314'		PROTECT IN PLACE
181	SENER	PALMDALE WD	REFINED SR14	UT-C4008-S14		Sierra Hwy / Ave R Eight	WATER	8" (ABAN)	PSI	370'		TO BE REMOVED
182	SENER	SPRINT	REFINED SR14	UT-C4008-S14		Sierra Hwy / Ave R Eight	FIBER OPTIC			1150'		PROTECT IN PLACE
183	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	295+00 to 296+80	Sierra Hwy / Ave S	WATER	8" (ABAN)	PSI	180'		TO BE REMOVED
184	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	313+80 to 318+10	Sierra Hwy / Ave S	WATER	48"	PSI	500'		TO BE RELOCATED
185	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	313+80 to 317+60	Sierra Hwy / Ave S	WATER	30"	PSI	460'		TO BE RELOCATED
186	SENER	PALMDALE WD	REFINED SR14	UT-C4009-S14	313+80 to 318+10	Sierra Hwy / Ave S	WATER	36"	PSI	520'		TO BE RELOCATED
187	SENER	SCE	REFINED SR14	UT-C4009-S14	318+19	Sierra Hwy / Ave S	OH POWER		Kv	1900'		TO BE RELOCATED
188	SENER	AUTHORITY	REFINED SR14	UT-C4009-S14	307+70 to 320+00	Sierra Hwy / Ave S	TP-POWER	230 KV	Kv	1300'		PROPOSED
189	SENER	AUTHORITY	REFINED SR14	UT-C4010-S14	320+00 to 345+00	Sierra Hwy	TP-POWER	230 KV	Kv	2500'		PROPOSED
190	SENER	PALMDALE WD	REFINED SR14	UT-C4010-S14	322+70 to 345+00	Sierra Hwy	WATER	6"	PSI	2230'		TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
191	SENER	PALMDALE WD	REFINED SR14	UT-C4011-S14	345+00 to 370+00	Sierra Hwy	WATER	6"	PSI	2500'		TO BE RELOCATED
192	SENER	PALMDALE WD	REFINED SR14	UT-C4011-S14	362+40 to 370+00	Sierra Hwy	WATER	48"	PSI	120'		PROTECT IN PLACE
193	SENER	AUTHORITY	REFINED SR14	UT-C4011-S14	345+00 to 370+00	Sierra Hwy	TP-POWER	230 KV	Kv	3100'		PROPOSED
194	SENER	SPRINT	REFINED SR14	UT-C4012-S14	370+00 to 372+50	Barrel Springs Rd	FIBER OPTIC	4" STL		315'		PROTECT IN PLACE
195	SENER	PALMDALE WD	REFINED SR14	UT-C4012-S14	375+80 to 378+60	Barrel Springs Rd	WATER	4"	PSI	400'		PROTECT IN PLACE
196	SENER	AUTHORITY	REFINED SR14	UT-C4012-S14	370+00 to 395+00	Sierra Hwy	TP-POWER	230 KV	Kv	2800'		PROPOSED
197	SENER	AUTHORITY	REFINED SR14	UT-C4013-S14	395+00 to 420+00	Sierra Hwy / California Aqueduct	TP-POWER	230 KV	Kv	2630'		PROPOSED
198	SENER	DWR	REFINED SR14	UT-C4013-S14	395+00 to 401+00	California Aqueduct	AQUEDUCT	N/A				RELOCATE BY OTHERS
199	SENER	AUTHORITY	REFINED SR14	UT-C4014-S14	420+00 to 423+30		TP-POWER	230 KV	Kv	2630'		PROPOSED
200	SENER	LADWP	REFINED SR14	UT-C4017-S14	509+00 to 520+00		OH POWER	500 KV	Kv	5810'		PROTECT IN PLACE
201	SENER	PG	REFINED SR14	UT-C4017-S14	518+69		OH POWER	500 KV	Kv	1800'		PROTECT IN PLACE
202	SENER	SCE	REFINED SR14	UT-C4017-S14	515+22		OH POWER	230 KV	Kv	1810'		PROTECT IN PLACE
203	SENER	LADWP	REFINED SR14	UT-C4018-S14	520+00 to 524+70	Peaceful Valley Rd	OH POWER	500 KV	Kv	2560'		PROTECT IN PLACE
204	SENER	SCE	REFINED SR14	UT-C4019-S14	551+52	Edison Power Rd	OH POWER	500 KV	Kv	2120'		PROTECT IN PLACE
205	SENER	LACDPW	REFINED SR14	UT-C4022-S14	637+00		WATER	8"	PSI	2400'		PROTECT IN PLACE
206	SENER	LACDPW	REFINED SR14	UT-C4022-S14	628+45		WATER	12"	PSI	1100'		PROTECT IN PLACE
207	SENER	SCG	REFINED SR14	UT-C4022-S14	628+31		GAS	3"	PSI	2700'		PROTECT IN PLACE
208	SENER	LACDPW	REFINED SR14	UT-C4026-S14	730+00		WATER	8"	PSI	4900'		PROTECT IN PLACE
209	SENER	AUTHORITY	REFINED SR14	UT-C4026-S14	730+70 to 745+00		TP-POWER		Kv	2190'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
210	SENER	AUTHORITY	REFINED SR14	UT-C4027-S14	745+00 to 770+00		TP-POWER		Kv	2500'		PROPOSED
211	SENER	CITY OF ACTON	REFINED SR14	UT-C4028-S14	791+35	Red Rover Mine Rd	GAS	4"	PSI	2000'		PROTECT IN PLACE
212	SENER	LACDPW	REFINED SR14	UT-C4028-S14	778+47	Sierra Hwy	WATER	16"	PSI	1000'		PROPOSED
213	SENER	AUTHORITY	REFINED SR14	UT-C4028-S14	770+00 to 795+00		TP-POWER		Kv	2600'		PROPOSED
214	SENER	UNKNOWN	REFINED SR14	UT-C4029-S14	797+60	SR-14	FIBER			1810'		PROTECT IN PLACE
215	SENER	AUTHORITY	REFINED SR14	UT-C4029-S14	815+00	Escondido Canyon Rd	WATER	16"	PSI	1800'		PROPOSED
216	SENER	AUTHORITY	REFINED SR14	UT-C4029-S14	795+00 to 820+00		TP-POWER		Kv	2600'		PROPOSED
217	SENER	AUTHORITY	REFINED SR14	UT-C4029-S14	807+00 & 818+00	53 rd St / Escondido Canyon	WATER	16"	PSI	1100'		PROPOSED
218	SENER	AUTHORITY	REFINED SR14	UT-C4030-S14	820+00 to 825+00		WATER	16"	PSI	850'		PROPOSED
219	SENER	AUTHORITY	REFINED SR14	UT-C4030-S14	820+00 to 820+50		TP-POWER		Kv	50'		PROPOSED
220	SENER	AUTHORITY	REFINED SR14	UT-C4036-S14	987+75	Big Springs Rd	WATER	16"	PSI	1500'		PROPOSED
221	SENER	AUTHORITY	REFINED SR14	UT-C4037-S14	995+00 to 1020+00	Bradley Canyon Rd	WATER	16"	PSI	3250'		PROPOSED
222	SENER	AUTHORITY	REFINED SR14	UT-C4037-S14	995+00 to 1020+00		TP-POWER		Kv	2500'		PROPOSED
223	SENER	AUTHORITY	REFINED SR14	UT-C4038-S14	1020+00 to 1045+00		WATER	16"	PSI	3000'		PROPOSED
224	SENER	AUTHORITY	REFINED SR14	UT-C4038-S14	1020+00 to 1045+00		TP-POWER		Kv	2500'		PROPOSED
225	SENER	AUTHORITY	REFINED SR14	UT-C4039-S14	1045+00 to 1065+50		WATER	16"	PSI	2900'		PROPOSED
226	SENER	AUTHORITY	REFINED SR14	UT-C4039-S14	1045+00 to 1070+00		TP-POWER		Kv	2500'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
227	SENER	AUTHORITY	REFINED SR14	UT-C4040-S14	1070+00 to 1095+00		TP-POWER		Kv	2500'		PROPOSED
228	SENER	AUTHORITY	REFINED SR14	UT-C4041-S14	1103+70		WATER	16"	PSI	1350'		PROPOSED
229	SENER	AUTHORITY	REFINED SR14	UT-C4041-S14	1095+00 to 1111+88		TP-POWER		Kv	1940'		PROPOSED
230	SENER	SCE	REFINED SR14	UT-C4042-S14	1139+95 & 1143+62		OH POWER	230 KV	Kv	1410'		TO BE RELOCATED
231	SENER	AUTHORITY	REFINED SR14	UT-C4042-S14	1138+50 to 1145+00		WATER	16"	PSI	750'		PROPOSED
232	SENER	SCE	REFINED SR14	UT-C4042-S14	1133+64 to 1145+00	Burke Rd	OH POWER	16 KV	Kv	1770'		PROTECT IN PLACE
233	SENER	SCE	REFINED SR14	UT-C4043-S14	1146+50	Agua Dulce Canyon Rd	OH POWER	230 KV	Kv	4100'		TO BE RELOCATED
234	SENER	SCE	REFINED SR14	UT-C4043-S14	1150+20	Agua Dulce Canyon Rd	OH POWER	16 KV	Kv	770'		TO BE RELOCATED
235	SENER	AUTHORITY	REFINED SR14	UT-C4043-S14	1145+00 to 1170+00	Agua Dulce Canyon Rd	WATER	16"	PSI	4450'		PROPOSED
236	SENER	AUTHORITY	REFINED SR14	UT-C4043-S14	1156+74	Agua Dulce Canyon Rd	TP-POWER		Kv	1660'		PROPOSED
237	SENER	SCE	REFINED SR14	UT-C4043-S14	1155+20	Agua Dulce Canyon Rd	OH POWER	16 KV	Kv	580'		TO BE REMOVED
238	SENER	AUTHORITY	REFINED SR14	UT-C4044-S14	1170+89		WATER	16"	PSI	510'		PROPOSED
239	SENER	AUTHORITY	REFINED SR14	UT-C4044-S14	1170+00 to 1172+40 to		TP-POWER		Kv	250'		PROPOSED
240	SENER	AUTHORITY	REFINED SR14	UT-C4046-S14	1232+00 to 1245+00		WATER	16"	PSI	1370'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
241	SENER	AUTHORITY	REFINED SR14	UT-C4047-S14	1245+00 to 1270+00		WATER	16"	PSI	2515'		PROPOSED
242	SENER	AUTHORITY	REFINED SR14	UT-C4047-S14	1245+00 to 1270+00		TP-POWER		Kv	2515'		PROPOSED
243	SENER	AUTHORITY	REFINED SR14	UT-C4048-S14	1270+00 to 1292+94	Soledad Canyon Rd	WATER	16"	PSI	2750'		PROPOSED
244	SENER	AUTHORITY	REFINED SR14	UT-C4048-S14	1270+00 to 1291+18	Soledad Canyon Rd	TP-POWER		Kv	2033'		PROPOSED
245	SENER	SCE	REFINED SR14	UT-C4049-S14	1295+71	Soledad Canyon Rd	OH POWER	16 KV	Kv	2740'		PROTECT IN PLACE
246	SENER	SCE	REFINED SR14	UT-C4050-S14	1322+27		OH POWER	16 KV	Kv	1190'		PROTECT IN PLACE
247	SENER	AUTHORITY	REFINED SR14	UT-C4050-S14	1325+58		WATER	16"	PSI	501'		PROPOSED
248	SENER	AUTHORITY	REFINED SR14	UT-C4050-S14	1324+19		TP-POWER		Kv	772'		PROPOSED
249	SENER	AUTHORITY	REFINED SR14	UT-C4058-S14	1539+40	Sand Canyon Rd	WATER	8"	PSI	2200'		PROPOSED
250	SENER	AUTHORITY	REFINED SR14	UT-C4059-S14	1545+00 to 1560+00	Sand Canyon Rd	WATER	8"	PSI	1580'		PROPOSED
251	SENER	VERIZON	REFINED SR14	UT-C4066-S14	1739+42	Pacoima Canyon	TEL (OH)			3011'		PROTECT IN PLACE
252	SENER	LADWP	REFINED SR14	UT-C4066-S14	1738+25		WATER	8"	PSI	450'		PROTECT IN PLACE
253	SENER	CITY OF LA	REFINED SR14	UT-C4066-S14	1738+20		SEWER	8"	CFS	1096'		PROTECT IN PLACE
254	SENER	SCG	REFINED SR14	UT-C4066-S14	1738+30		GAS	4"	PSI	172'		PROTECT IN PLACE
255	SENER	SCE	REFINED SR14	UT-C4066-S14	1738+40		OH POWER	33 KV	Kv	466'		PROPOSED
256	SENER	AUTHORITY	REFINED SR14	UT-C4066-S14	1736+30		WATER	8"	PSI	259'		PROPOSED
257	SENER	SCG	REFINED SR14	UT-C4067-S14	1761+00 to 1770	Gavina Ave	GAS	2"	PSI	5012'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
258	SENER	SCG	REFINED SR14	UT-C4067-S14	1761+00 to 1770	Gavina Ave	GAS	3"	PSI	1900'		PROTECT IN PLACE
259	SENER	SCG	REFINED SR14	UT-C4067-S14	1749+70	Gavina Ave	GAS	4"	PSI	1200'		PROTECT IN PLACE
260	SENER	VERIZON	REFINED SR14	UT-C4067-S14	1765+00 to 1770+00		TELECOM			1000'		PROTECT IN PLACE
261	SENER	LADWP	REFINED SR14	UT-C4067-S14	1749+59		WATER	12"	PSI	780'		PROTECT IN PLACE
262	SENER	AUTHORITY	REFINED SR14	UT-C4067-S14	1749+59		WATER	12"	PSI	1025'		PROPOSED
263	SENER	AUTHORITY	REFINED SR14	UT-C4067-S14	1749+59		OH POWER	33KV	Kv	910'		PROPOSED
264	SENER	CITY OF LA	REFINED SR14	UT-C4068-S14	1779+00	Pacoima Canyon Rd	SEWER	8"	CFS	3100'		PROTECT IN PLACE
265	SENER	SCG	REFINED SR14	UT-C4068-S14	1770+50 to	Pacoima Canyon Rd	GAS	2"	PSI	5000'		PROTECT IN PLACE
266	SENER	SCG	REFINED SR14	UT-C4068-S14	1773+60	Pacoima Canyon Rd	GAS	3"	PSI	800'		PROTECT IN PLACE
267	SENER	VERIZON	REFINED SR14	UT-C4068-S14	1778+30	Pacoima Canyon Rd	TELECOM			1000'		PROTECT IN PLACE
268	SENER	SCG	REFINED SR14	UT-C4069-S14	1797+30		GAS	2"	PSI	1200'		PROTECT IN PLACE
269	SENER	SCE	REFINED SR14	UT-C4071-S14	1861+00	I-210	OH POWER	230 KV	Kv	900'		PROTECT IN PLACE
270	SENER	AUTHORITY	REFINED SR14	UT-C4071-S14	1863+70	I-210	TP-POWER		Kv	1810'		PROPOSED
271	SENER	VERIZON	REFINED SR14	UT-C4071-S14	1858+62	I-210	TELECOM			850'		PROTECT IN PLACE
272	SENER	CITY OF LA	REFINED SR14	UT-C4072-S14	1877+50		SEWER	8"	CFS	850'		PROTECT IN PLACE
273	SENER	LADWP	REFINED SR14	UT-C4072-S14	1893+51		WATER	14"	PSI	800'		PROTECT IN PLACE
274	SENER	LADWP	REFINED SR14	UT-C4072-S14	1778+26		WATER	30"	PSI	800'		PROTECT IN PLACE
275	SENER	SCG	REFINED SR14	UT-C4072-S14	1877+73		GAS	4"	PSI	1000'		PROTECT IN PLACE
276	SENER	SCE	REFINED SR14	UT-C4072-S14	1877+52		OH POWER		Kv	1000'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
277	SENER	AUTHORITY	REFINED SR14	UT-C4072-S14	1872+67		TP-POWER		Kv	1363'		PROPOSED
278	SENER	CITY OF LA	REFINED SR14	UT-C4073-S14	1896+82, 1901+43, 1913+10, 1916+22		SEWER	8"	CFS	2000'		PROTECT IN PLACE
279	SENER	LADWP	REFINED SR14	UT-C4073-S14	1901+60 to 1902+00		WATER	6"	PSI	900'		PROTECT IN PLACE
280	SENER	LADWP	REFINED SR14	UT-C4073-S14	1897+00		WATER	8"	PSI	800'		PROTECT IN PLACE
281	SENER	SCG	REFINED SR14	UT-C4073-S14	1901+28		GAS	2"	PSI	800'		PROTECT IN PLACE
282	SENER	CITY OF LA	REFINED SR14	UT-C4074-S14	1922+75, 1924+00, 1936+80, 1937+70		SEWER	8"	CFS	2400'		PROTECT IN PLACE
283	SENER	CITY OF LA	REFINED SR14	UT-C4074-S14	1932+15		SEWER	18"	CFS	800'		PROTECT IN PLACE
284	SENER	LADWP	REFINED SR14	UT-C4074-S14	1932+30		WATER	12"	PSI	800'		PROTECT IN PLACE
285	SENER	SCG	REFINED SR14	UT-C4074-S14	1922+49, 1940+50, 1942+29, 1944+00		GAS	2"	PSI	2400'		PROTECT IN PLACE
286	SENER	SCG	REFINED SR14	UT-C4074-S14	1932+00, 1936+70,		GAS	4"	PSI	1600'		PROTECT IN PLACE
287	SENER	SCG	REFINED SR14	UT-C4074-S14	1937+15		GAS	6"	PSI	800'		PROTECT IN PLACE
288	SENER	SCG	REFINED SR14	UT-C4074-S14	1937+65, 1937+90		GAS	16"	PSI	1600'		PROTECT IN PLACE
289	SENER	LADWP	REFINED SR14	UT-C4074-S14	1937+36		WATER	8"	PSI	800'		PROTECT IN PLACE
290	SENER	CITY OF LA	REFINED SR14	UT-C4075-S14	1951+00, 1954+38, 1959+09, 1962+05		SEWER	8"	CFS	3200'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
291	SENER	SCG	REFINED SR14	UT-C4075-S14	1958+95		GAS	1"	PSI	800'		PROTECT IN PLACE
292	SENER	SCG	REFINED SR14	UT-C4075-S14	1947+82, 1950+80, 1954+26		GAS	2"	PSI	2400'		PROTECT IN PLACE
293	SENER	SCG	REFINED SR14	UT-C4076-S14	1981+94, 1993+74		GAS	3"	PSI	1000'		PROTECT IN PLACE
294	SENER	SCG	REFINED SR14	UT-C4076-S14	1982+28		GAS		PSI	800'		PROTECT IN PLACE
295	SENER	SCG	REFINED SR14	UT-C4076-S14	1993+74		GAS	2"	PSI	300'		PROTECT IN PLACE
296	SENER	CITY OF LA	REFINED SR14	UT-C4076-S14	1993+37, 1993+85		SEWER	8"	CFS	1000'		PROTECT IN PLACE
297	SENER	SCE	REFINED SR14	UT-C4076-S14	1982+65		OH POWER		Kv	800'		PROTECT IN PLACE
298	SENER	AT&T-SPRINT	REFINED SR14	UT-C4078-S14	2040+00 to 2045+00	San Fernando Rd	TEL	4-2"		500'		PROTECT IN PLACE
299	SENER	PPS	REFINED SR14	UT-C4078-S14	2040+00 to 2045+00	San Fernando Rd	OIL	20"		500'		PROTECT IN PLACE
300	SENER	QWEST	REFINED SR14	UT-C4078-S14	2040+00 to 2045+00	San Fernando Rd	FIBER	2X2"		500'		PROTECT IN PLACE
301	SENER	CITY OF LA	REFINED SR14	UT-C4078-S14	2040+00 to 2045+00	San Fernando Rd	OIL	8"		500'		PROTECT IN PLACE
302	SENER	LADWP	REFINED SR14	UT-C4078-S14	2034+14	San Fernando Rd	WATER			800'		PROTECT IN PLACE
303	SENER	SCG	REFINED SR14	UT-C4078-S14	2040+00 to 2045+00	San Fernando Rd	GAS	12" (ABAN)		500'		PROTECT IN PLACE
304	SENER	LADWP	REFINED SR14	UT-C4078-S14	2040+00 to 2045+00	San Fernando Rd	OH POWER			500'		PROTECT IN PLACE
305	SENER	SCG	REFINED SR14	UT-C4078-S14	2040+00 to 2045+00	San Fernando Rd	GAS			500'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
306	SENER	LADWP	REFINED SR14	UT-C4078-S14	2035+80, 2043+00	San Fernando Rd	OH POWER			1000'		TO BE RELOCATED
307	SENER	PALMDALE WD	REFINED SR14	UT-C4511-S14		Ave S / North of Fifth St	WATER	24"	PSI	176'		TO BE RELOCATED
308	SENER	AT&T	REFINED SR14	UT-C4511-S14		Ave S / North of Fifth St	TELEPHONE			550'		TO BE RELOCATED
309	SENER	SCE	REFINED SR14	UT-C4511-S14		Ave S / North of Fifth St	OH POWER			1100'		TO BE RELOCATED
310	SENER	PALMDALE WD	REFINED SR14	UT-C4511-S14		Ave S / North of Fifth St	WATER	8"	PSI	410'		PROTECT IN PLACE
311	SENER	PALMDALE WD	REFINED SR14	UT-C4511-S14		Ave S / North of Fifth St	WATER	12"	PSI	1600'		PROTECT IN PLACE
312	SENER	PALMDALE WD	REFINED SR14	UT-C4511-S14		Ave S / North of Fifth St	WATER	20"	PSI	1600'		PROTECT IN PLACE
313	SENER	PALMDALE WD	REFINED SR14	UT-C4511-S14		Ave S / North of Fifth St	WATER	8"	PSI	39'		TO BE REMOVED
314	SENER	PALMDALE WD	REFINED SR14	UT-C4512-S14		Tenth St.	WATER	12"	PSI	370'		TO BE RELOCATED
315	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4513-S14		Ave S / Monroe Place / Delaware Dr	SEWER	8"	CFS	1000'		PROTECT IN PLACE
316	SENER	SCE	REFINED SR14	UT-C4513-S14		Ave S / Monroe Place / Delaware Dr	OH POWER		Kv	650'		TO BE RELOCATED
317	SENER	PALMDALE WD	REFINED SR14	UT-C4514-S14		Rozalee Rd	WATER	8"	PSI	50'		PROTECT IN PLACE
318	SENER		REFINED SR14	UT-C4516-S14		Sierra Hwy	FIBER			700'		PROTECT IN PLACE
319	SENER	PALMDALE WD	REFINED SR14	UT-C4516-S14		Sierra Hwy	WATER	8"	PSI	700'		PROTECT IN PLACE
320	SENER	PALMDALE WD	REFINED SR14	UT-C4516-S14		Sierra Hwy	WATER	6"	PSI	700'		PROTECT IN PLACE
321	SENER	SCE	REFINED SR14	UT-C4516-S14		Sierra Hwy	OH POWER		Kv	1500'		PROTECT IN PLACE
322	SENER	AUTHORITY	REFINED SR14	UT-C4518-S14		SR-14 / PPEF	TP-POWER	230 KV	Kv	2300'		PROPOSED
323	SENER	AUTHORITY	REFINED SR14	UT-C4520-S14		Sierra Hwy / W Carson Mesa Rd	TP-POWER	230 KV	Kv	3400'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
324	SENER	AVEK	REFINED SR14	UT-C4520-S14		Sierra Hwy / W Carson Mesa Rd	WATER	20"	PSI	2650'		PROTECT IN PLACE
325	SENER		REFINED SR14	UT-C4520-S14		Sierra Hwy / W Carson Mesa Rd	FIBER OPTIC			1500'		PROTECT IN PLACE
326	SENER	SCE	REFINED SR14	UT-C4520-S14		Sierra Hwy / W Carson Mesa Rd	OH POWER	12 KV	Kv	2650'		PROTECT IN PLACE
327	SENER	AUTHORITY	REFINED SR14	UT-C4521-S14		W Carson Mesa Rd / Angeles Forest Hwy	TP-POWER	230 KV	Kv	2600'		PROPOSED
328	SENER	AVEK	REFINED SR14	UT-C4521-S14		W Carson Mesa Rd / Angeles Forest Hwy	WATER	20"	PSI	2600'		PROTECT IN PLACE
329	SENER		REFINED SR14	UT-C4521-S14		W Carson Mesa Rd / Angeles Forest Hwy	FIBER OPTIC			2000'		PROTECT IN PLACE
330	SENER	SCE	REFINED SR14	UT-C4521-S14		W Carson Mesa Rd / Angeles Forest Hwy	OH POWER	12 KV	Kv	800'		PROTECT IN PLACE
331	SENER	SCE	REFINED SR14	UT-C4521-S14		Sierra Hwy	OH POWER	12 KV	Kv	1000'		PROTECT IN PLACE
332	SENER	AUTHORITY	REFINED SR14	UT-C4522-S14		Angeles Forest Hwy	TP-POWER	230 KV	Kv	2650'		PROPOSED
333	SENER	AVEK	REFINED SR14	UT-C4522-S14		Sierra Hwy	WATER	20"	PSI	2300'		PROTECT IN PLACE
334	SENER		REFINED SR14	UT-C4522-S14		Sierra Hwy	FIBER OPTIC			1200'		PROTECT IN PLACE
335	SENER	SCE	REFINED SR14	UT-C4522-S14		Angeles Forest Hwy	OH POWER	12 KV	Kv	1000'		PROTECT IN PLACE
336	SENER	SCE	REFINED SR14	UT-C4523-S14		W Carson Mesa Rd	OH POWER	230 KV	Kv	1000'		PROTECT IN PLACE
337	SENER	SCE	REFINED SR14	UT-C4523-S14		W Carson Mesa Rd	OH POWER	500 KV	Kv	1000'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
338	SENER	AUTHORITY	REFINED SR14	UT-C4523-S14		W Carson Mesa Rd	TP-POWER	230 KV	Kv	2525'		PROPOSED
339	SENER	SCE	REFINED SR14	UT-C4523-S14		Angeles Forest Hwy	OH POWER	12 KV	Kv	1300'		PROTECT IN PLACE
340	SENER	SCE	REFINED SR14	UT-C4524-S14		Foreston Dr / Harbor Carson Mesa Rd	OH POWER	230 KV	Kv	500'		PROTECT IN PLACE
341	SENER	SCE	REFINED SR14	UT-C4524-S14		Foreston Dr / Harbor Carson Mesa Rd	OH POWER	500 KV	Kv	1800'		PROTECT IN PLACE
342	SENER	AUTHORITY	REFINED SR14	UT-C4524-S14		Foreston Dr / Harbor Carson Mesa Rd	TP-POWER	230 KV	Kv	1550'		PROPOSED
343	SENER	SCE	REFINED SR14	UT-C4524-S14		Foreston Dr / Harbor Carson Mesa Rd	OH POWER		Kv	1500'		PROTECT IN PLACE
344	SENER	AUTHORITY	REFINED SR14	UT-C4527-S14		Governor Mine Rd / Crown Valley Rd	TP-POWER		Kv	1500'		PROPOSED
345	SENER	LACDPW	REFINED SR14	UT-C4528-S14		Martingale Ln / Bandell St	WATER	6"	PSI	900'		PROTECT IN PLACE
346	SENER	AUTHORITY	REFINED SR14	UT-C4528-S14		Governor Mine Rd / Crown Valley Rd	TP-POWER		Kv	1840'		PROPOSED
347	SENER	AUTHORITY	REFINED SR14	UT-C4530-S14		Escondido Canyon Rd	WATER	16"	PSI	1400'		PROPOSED
348	SENER	AUTHORITY	REFINED SR14	UT-C4531-S14		Escondido Canyon Rd / Clanfield St	WATER	16"	PSI	3000'		PROPOSED
349	SENER	AUTHORITY	REFINED SR14	UT-C4537-S14		Escondido Canyon Rd	WATER	16"	PSI	2500'		PROPOSED
350	SENER	AUTHORITY	REFINED SR14	UT-C4538-S14		Escondido Canyon Rd	WATER	16"	PSI	2220'		PROPOSED
351	SENER	AUTHORITY	REFINED SR14	UT-C4539-S14		Escondido Canyon Rd	WATER	16"	PSI	2865'		PROPOSED
352	SENER	AUTHORITY	REFINED SR14	UT-C4540-S14		Escondido Canyon Rd	WATER	16"	PSI	2580'		PROPOSED
353	SENER	AUTHORITY	REFINED SR14	UT-C4541-S14		Escondido Canyon Rd	WATER	16"	PSI	2530'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
354	SENER	AUTHORITY	REFINED SR14	UT-C4542-S14		Escondido Canyon Rd	WATER	16"	PSI	2510'		PROPOSED
355	SENER	AUTHORITY	REFINED SR14	UT-C4543-S14		Escondido Canyon Rd / Big Springs Rd	WATER	16"	PSI	3000'		PROPOSED
356	SENER	AUTHORITY	REFINED SR14	UT-C4544-S14		Big Springs Rd / Banson St	WATER	16"	PSI	1920'		PROPOSED
357	SENER	AUTHORITY	REFINED SR14	UT-C4545-S14		Escondido Canyon Rd / Old Stage Rd	WATER	16"	PSI	2850'		PROPOSED
358	SENER	AUTHORITY	REFINED SR14	UT-C4546-S14		Escondido Canyon Rd / Old Stage Rd	WATER	16"	PSI	2790'		PROPOSED
359	SENER	AUTHORITY	REFINED SR14	UT-C4547-S14		Escondido Canyon Rd / Hanawalt Rd	WATER	16"	PSI	2430'		PROPOSED
360	SENER	AUTHORITY	REFINED SR14	UT-C4548-S14		Escondido Canyon Rd	WATER	16"	PSI	2520'		PROPOSED
361	SENER	AUTHORITY	REFINED SR14	UT-C4549-S14		Escondido Canyon Rd	WATER	16"	PSI	2680'		PROPOSED
362	SENER	AUTHORITY	REFINED SR14	UT-C4550-S14		Escondido Canyon Rd / Agua Dulce Canyon Rd	WATER	16"	PSI	1920'		PROPOSED
363	SENER	AUTHORITY	REFINED SR14	UT-C4551-S14		Agua Dulce Canyon Rd	WATER	16"	PSI	2000'		PROPOSED
364	SENER	AUTHORITY	REFINED SR14	UT-C4552-S14		Agua Dulce Canyon Rd	WATER	16"	PSI	1970'		PROPOSED
365	SENER	AUTHORITY	REFINED SR14	UT-C4553-S14		Agua Dulce Canyon Rd	WATER	16"	PSI	2300'		PROPOSED
366	SENER	SCE	REFINED SR14	UT-C4554-S14		Agua Dulce Canyon Rd	OH POWER	16 KV	Kv	1300'		PROTECT IN PLACE
367	SENER	AUTHORITY	REFINED SR14	UT-C4554-S14		Agua Dulce Canyon Rd	WATER	16"	PSI	1900'		PROPOSED
368	SENER	AUTHORITY	REFINED SR14	UT-C4555-S14		Prop. Access Rd	WATER	16"	PSI	715'		PROPOSED
369	SENER	SCE	REFINED SR14	UT-C4555-S14			OH POWER		Kv	600'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
370	SENER	AUTHORITY	REFINED SR14	UT-C4555-S14		Prop. Access Rd	TP-POWER		Kv	350'		PROPOSED
371	SENER	AUTHORITY	REFINED SR14	UT-C4556-S14		Prop. Access Rd	WATER	16"	PSI	2650'		PROPOSED
372	SENER	SCE	REFINED SR14	UT-C4556-S14			OH POWER		Kv	2000'		PROTECT IN PLACE
373	SENER	AUTHORITY	REFINED SR14	UT-C4556-S14		Prop. Access Rd	TP-POWER		Kv	470'		PROPOSED
374	SENER	AUTHORITY	REFINED SR14	UT-C4557-S14		Agua Dulce Canyon Rd	WATER	16"	PSI	1750'		PROPOSED
375	SENER	SCE	REFINED SR14	UT-C4557-S14		Agua Dulce Canyon Rd	OH POWER		Kv	700'		PROTECT IN PLACE
376	SENER	SCE	REFINED SR14	UT-C4558-S14		Soledad Canyon Rd	OH POWER	16 KV	Kv	1600'		PROTECT IN PLACE
377	SENER	AUTHORITY	REFINED SR14	UT-C4558-S14		Soledad Canyon Rd	WATER	16"	PSI	1670'		PROPOSED
378	SENER	SCE	REFINED SR14	UT-C4559-S14		Lang Station Rd / Soledad Cayon Rd	OH POWER	16 KV	Kv	1000'		PROTECT IN PLACE
379	SENER	AUTHORITY	REFINED SR14	UT-C4559-S14		Lang Station Rd / Soledad Cayon Rd	WATER	16"	PSI	3380'		PROPOSED
380	SENER	AUTHORITY	REFINED SR14	UT-C4559-S14		Lang Station Rd	TP-POWER		Kv	460'		PROPOSED
381	SENER	SCE	REFINED SR14	UT-C4560-S14		Soledad Cayon Rd	OH POWER	16 KV	Kv	700'		PROTECT IN PLACE
382	SENER	AUTHORITY	REFINED SR14	UT-C4560-S14		Soledad Cayon Rd	WATER	16"	PSI	4000'		PROPOSED
383	SENER	AUTHORITY	REFINED SR14	UT-C4560-S14		Soledad Cayon Rd	TP-POWER		Kv	160'		PROPOSED
384	SENER	SCE	REFINED SR14	UT-C4561-S14		Lang Station Rd	OH POWER	16 KV	Kv	2000'		PROTECT IN PLACE
385	SENER	AUTHORITY	REFINED SR14	UT-C4561-S14		Lang Station Rd	WATER	16"	PSI	1630'		PROPOSED
386	SENER	AUTHORITY	REFINED SR14	UT-C4561-S14		Lang Station Rd	TP-POWER		Kv	1830'		PROPOSED
387	SENER	AUTHORITY	REFINED SR14	UT-C4563-S14		Sand Canyon Rd	WATER	8"	PSI	1200'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
388	SENER	UNKNOWN	REFINED SR14	UT-C4563-S14		Sand Canyon Rd	WATER	8"	PSI	970'		PROTECT IN PLACE
389	SENER	AUTHORITY	REFINED SR14	UT-C4564-S14		Sand Canyon Rd	WATER	8"	PSI	2600'		PROPOSED
390	SENER	AUTHORITY	REFINED SR14	UT-C4565-S14		Sand Canyon Rd	WATER	8"	PSI	2805'		PROPOSED
391	SENER	AUTHORITY	REFINED SR14	UT-C4566-S14		Sand Canyon Rd	WATER	8"	PSI	3750'		PROPOSED
392	SENER	AUTHORITY	REFINED SR14	UT-C4567-S14		Sand Canyon Rd	WATER	8"	PSI	3930'		PROPOSED
393	SENER	AUTHORITY	REFINED SR14	UT-C4570-S14		Sand Canyon Rd	WATER	8"	PSI	3550'		PROPOSED
394	SENER	VERIZON	REFINED SR14	UT-C4570-S14		Sand Canyon Rd	TELECOM			1000'		PROTECT IN PLACE
395	SENER	AUTHORITY	REFINED SR14	UT-C4571-S14		Sand Canyon Rd	TP-POWER		Kv	2030'		PROPOSED
396	SENER	VERIZON	REFINED SR14	UT-C4571-S14		Sand Canyon Rd	TELECOM			2250'		PROTECT IN PLACE
397	SENER	AUTHORITY	REFINED SR14	UT-C4571-S14		Sand Canyon Rd	WATER	8"	PSI	700'		PROPOSED
398	SENER	AUTHORITY	REFINED SR14	UT-C4572-S14		Sand Canyon Rd	TP-POWER		Kv	1865'		PROPOSED
399	SENER	VERIZON	REFINED SR14	UT-C4572-S14		Sand Canyon Rd	TELECOM			2500'		PROTECT IN PLACE
400	SENER	AUTHORITY	REFINED SR14	UT-C4573-S14		Sand Canyon Rd	TP-POWER		Kv	2310'		PROPOSED
401	SENER	VERIZON	REFINED SR14	UT-C4573-S14		Sand Canyon Rd	TELECOM			500'		PROTECT IN PLACE
402	SENER	AUTHORITY	REFINED SR14	UT-C4574-S14		Sand Canyon Rd	TP-POWER		Kv	2120'		PROPOSED
403	SENER	VERIZON	REFINED SR14	UT-C4574-S14		Sand Canyon Rd	TELECOM			800'		PROTECT IN PLACE
404	SENER	AUTHORITY	REFINED SR14	UT-C4575-S14			TP-POWER		Kv	1925'		PROPOSED
405	SENER	VERIZON	REFINED SR14	UT-C4575-S14			TELECOM			500'		PROTECT IN PLACE
406	SENER	AUTHORITY	REFINED SR14	UT-C4576-S14		Little Tujunga Canyon Rd	TP-POWER		Kv	1970'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
407	SENER	VERIZON	REFINED SR14	UT-C4576-S14		Little Tujunga Canyon Rd	TELECOM			500'		PROTECT IN PLACE
408	SENER	AUTHORITY	REFINED SR14	UT-C4577-S14		Little Tujunga Canyon Rd	TP-POWER		Kv	1700'		PROPOSED
409	SENER	VERIZON	REFINED SR14	UT-C4577-S14		Little Tujunga Canyon Rd	TELECOM			500'		PROTECT IN PLACE
410	SENER	LADWP	REFINED SR14	UT-C4577-S14		Little Tujunga Canyon Rd	OH POWER	500 kv	Kv	600'		PROTECT IN PLACE
411	SENER	SCG	REFINED SR14	UT-C4580-S14		Gavina Ave / Rajah St	GAS	2"	PSI	770'		PROTECT IN PLACE
412	SENER	CITY OF LA	REFINED SR14	UT-C4580-S14		Gavina Ave / Rajah St	SEWER	8"	CFS	1800'		PROTECT IN PLACE
413	SENER	SCG	REFINED SR14	UT-C4580-S14		Gavina Ave / Rajah St	GAS	4"	PSI	300'		PROTECT IN PLACE
414	SENER	VERIZON	REFINED SR14	UT-C4580-S14		Gavina Ave / Rajah St	TELECOM			500'		PROTECT IN PLACE
415	SENER	LADWP	REFINED SR14	UT-C4580-S14		Gavina Ave / Rajah St	WATER	12"	PSI	2000'		PROTECT IN PLACE
416	SENER	AUTHORITY	REFINED SR14	UT-C4580-S14		Gavina Ave / Rajah St	WATER	12"	PSI	1100'		PROPOSED
417	SENER	AUTHORITY	REFINED SR14	UT-C4580-S14		Gavina Ave / Rajah St	OH POWER	33 KV	Kv	385'		PROPOSED
418	SENER	SCE	REFINED SR14	UT-C4581-S14		I-210 / Foothill Blvd	OH POWER	230 KV	Kv	500'		PROTECT IN PLACE
419	SENER	AUTHORITY	REFINED SR14	UT-C4581-S14		I-210 / Foothill Blvd	TP-POWER		Kv	225'		PROPOSED
420	SENER	CITY OF LA	REFINED SR14	UT-C4581-S14		I-210 / Foothill Blvd	SEWER	8"	CFS	600'		PROTECT IN PLACE
421	SENER	SCG	REFINED SR14	UT-C4581-S14		I-210 / Foothill Blvd	GAS	4"	PSI	100'		PROTECT IN PLACE
422	SENER	SCG	REFINED SR14	UT-C4583-S14		San Fernando Rd / Bromwich St	GAS	3"	PSI	1500'		PROTECT IN PLACE
423	SENER	CITY OF LA	REFINED SR14	UT-C4583-S14		San Fernando Rd / Bromwich St	SEWER	8"	CFS	1500'		PROTECT IN PLACE
424	SENER	UNKNOWN	REFINED SR14	UT-C4583-S14		San Fernando Rd / Bromwich St	WATER		PSI	1500'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
425	SENER	UNKNOWN	REFINED SR14	UT-C4583-S14		San Fernando Rd / Bromwich St	TEL			1500'		PROTECT IN PLACE
426	SENER	SCG	REFINED SR14	UT-C4583-S14		San Fernando Rd / Bromwich St	OH POWER		Kv	700'		PROTECT IN PLACE
427	SENER	SCG	REFINED SR14	UT-C4584-S14		El Dorado Ave / Truesdale St	OH POWER	230 KV	Kv	800'		PROTECT IN PLACE
428	SENER	CITY OF LA	REFINED SR14	UT-C4584-S14		El Dorado Ave / Truesdale St	SEWER	8"	CFS	600'		PROTECT IN PLACE
429	SENER	SCG	REFINED SR14	UT-C4584-S14		El Dorado Ave / Truesdale St	GAS		PSI	600'		PROTECT IN PLACE
430	SENER	LACDPW	REFINED SR14	UT-C4598-S14		SR-14	WATER	16"	PSI	800'		PROTECT IN PLACE
431	SENER	LACDPW	REFINED SR14	UT-C4598-S14		SR-14	WATER	12"	PSI	800'		PROTECT IN PLACE
432	SENER	CITY OF ACTON	REFINED SR14	UT-C4598-S14		SR-14	GAS	4"	PSI	800'		PROTECT IN PLACE
433	SENER	LACDPW	REFINED SR14	UT-C4598-S14		SR-14	WATER	16"	PSI	182'		PROPOSED
434	SENER	SCG	REFINED SR14	UT-C4080-S14	2070+00 to 2095+00	San Fernando Rd	GAS	12" (ABAN)	PSI	2500'		TO BE REMOVED
435	SENER	AT&T	REFINED SR14	UT-C4080-S14	2070+00 to 2095+00	San Fernando Rd	TEL			2500'		PROTECT IN PLACE
436	SENER	LADWP	REFINED SR14	UT-C4080-S14	2088+50 to 2095+00	San Fernando Rd	WATER	20"	PSI	650'		PROTECT IN PLACE
437	SENER	SCG	REFINED SR14	UT-C4080-S14	2090+00 to 2095+00	San Fernando Rd	GAS	4"	PSI	500'		PROTECT IN PLACE
438	SENER	VERIZON	REFINED SR14	UT-C4080-S14	2070+00 to 2095+00	San Fernando Rd	TEL			2500'		PROTECT IN PLACE
439	SENER	CITY OF LA	REFINED SR14	UT-C4080-S14	2080+66 to 2084+24	San Fernando Rd	SEWER	12"	CFS	415'		TO BE REMOVED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
440	SENER	WILLIAMS	REFINED SR14	UT-C4080-S14	2070+00 to 2095+00	San Fernando Rd	TELECOM	12"		2500'		PROTECT IN PLACE
441	SENER	AT&T-SPRINT	REFINED SR14	UT-C4081-S14			TEL	4-2"				TO BE RELOCATED
442	SENER	PPS	REFINED SR14	UT-C4081-S14			OIL	20"				TO BE RELOCATED
443	SENER	QEST	REFINED SR14	UT-C4081-S14			FIBER	2X2"				TO BE RELOCATED
444	SENER	CITY OF LA	REFINED SR14	UT-C4081-S14			OIL	8"				TO BE RELOCATED
445	SENER	CITY OF LA	REFINED SR14	UT-C4081-S14			SEWER	12"	CFS			PROTECT IN PLACE
446	SENER	SCG	REFINED SR14	UT-C4081-S14			GAS	12" (ABAN)	PSI			TO BE REMOVED
447	SENER	AT&T	REFINED SR14	UT-C4081-S14			TEL					PROTECT IN PLACE
448	SENER	LADWP	REFINED SR14	UT-C4081-S14			WATER	20"	PSI			TO BE RELOCATED
449	SENER	CITY OF LA	REFINED SR14	UT-C4081-S14			SEWER	8"	CFS			PROTECT IN PLACE
450	SENER	SCG	REFINED SR14	UT-C4081-S14			GAS	4"	PSI			PROTECT IN PLACE
451	SENER	LADWP	REFINED SR14	UT-C4081-S14			POWER					TO BE RELOCATED
452	SENER	LADWP	REFINED SR14	UT-C4081-S14			WATER	6"	PSI			TO BE RELOCATED
453	SENER	CITY OF LA	REFINED SR14	UT-C4081-S14			SEWER	10" ABAN"	CFS			TO BE REMOVED
454	SENER	LADWP	REFINED SR14	UT-C4081-S14			OH POWER		Kv			PROTECT IN PLACE
455	SENER	WILLIAMS	REFINED SR14	UT-C4081-S14			TELECOM	12"				PROTECT IN PLACE
456	SENER	SCG	REFINED SR14	UT-C4083-S14	2145+00 to 2157+50	San Fernando Blvd	GAS	4"	PSI	1250'		PROTECT IN PLACE
457	SENER	CITY OF LA	REFINED SR14	UT-C4083-S14	2145+00 to 2162+00	San Fernando Blvd / Sunland Blvd	SEWER	13"	CFS	2000'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
458	SENER	LADWP	REFINED SR14	UT-C4083-S14	2161+71 to 2170+00	San Fernando Blvd / Sunland Blvd	WATER	48"	PSI	830'		PROTECT IN PLACE
459	SENER	SCG	REFINED SR14	UT-C4083-S14	2145+00 to 2170+00	San Fernando Blvd	GAS	12" (ABAN)	PSI	2500'		TO BE REMOVED
460	SENER	AT&T	REFINED SR14	UT-C4083-S14	2145+00 to 2170+00	San Fernando Blvd	TEL			2500'		PROTECT IN PLACE
461	SENER	LADWP	REFINED SR14	UT-C4083-S14	2158+50 to 2170+00	San Fernando Blvd / Sunland Blvd	WATER	27"	PSI	1200'		PROTECT IN PLACE
462	SENER	LADWP	REFINED SR14	UT-C4083-S14	2145+00 to 2161+50	San Fernando Blvd / Sunland Blvd	WATER	20"	PSI	1680'		PROTECT IN PLACE
463	SENER	SCG	REFINED SR14	UT-C4083-S14	2161+50	Sunland Blvd	GAS	3"	PSI	300'		PROTECT IN PLACE
464	SENER	WILLIAMS	REFINED SR14	UT-C4083-S14	2145+00 to 2170+00	San Fernando Blvd	TELECOM	12"		2500'		PROTECT IN PLACE
465	SENER	LADWP	REFINED SR14	UT-C4084-S14	2170+00 to 2195+00	San Fernando Blvd	WATER	48"	PSI	2500'		PROTECT IN PLACE
466	SENER	SCG	REFINED SR14	UT-C4084-S14	2179+20 to 2190+70	San Fernando Blvd / Clybourn Ave	GAS	2"	PSI	1500'		PROTECT IN PLACE
467	SENER	CITY OF LA	REFINED SR14	UT-C4084-S14	2170+00 to 2195+00	San Fernando Blvd / San Fernando Rd	OIL	8"		2500'		PROTECT IN PLACE
468	SENER	SCG	REFINED SR14	UT-C4084-S14	2170+00 to 2195+00	San Fernando Blvd / San Fernando Rd	GAS	12" (ABAN)	PSI	2550'		TO BE REMOVED
469	SENER	AT&T	REFINED SR14	UT-C4084-S14	2170+00 to 2195+00	San Fernando Blvd / San Fernando Rd	TEL			2500'		PROTECT IN PLACE
470	SENER	LADWP	REFINED SR14	UT-C4084-S14	2170+00 to 2195+00	San Fernando Blvd / San Fernando Rd	WATER	22"	PSI	2500'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
471	SENER	SCG	REFINED SR14	UT-C4084-S14	2179+21	San Fernando Blvd / Clybourn Ave	GAS	6"	PSI	400'		PROTECT IN PLACE
472	SENER	LADWP	REFINED SR14	UT-C4084-S14	2189+00	San Fernando Blvd / Wheatland Ave	WATER	12"	PSI	1000'		PROTECT IN PLACE
473	SENER	CITY OF LA	REFINED SR14	UT-C4084-S14	2171+30 to 2179+50	San Fernando Blvd	SEWER	8"	CFS	1000'		PROTECT IN PLACE
474	SENER	CITY OF LA	REFINED SR14	UT-C4084-S14	2192+66	San Fernando Blvd	SEWER	21"	CFS	800'		PROTECT IN PLACE
475	SENER	LADWP	REFINED SR14	UT-C4084-S14	2170+60 to 2186+00	San Fernando Blvd / White St	OH POWER		Kv	1200'		PROTECT IN PLACE
476	SENER	SCG	REFINED SR14	UT-C4084-S14	2181+92 to 2195+00	San Fernando Blvd	GAS	4"	PSI	1400'		PROTECT IN PLACE
477	SENER	WILLIAMS	REFINED SR14	UT-C4084-S14	2170+00 to 2195+00	San Fernando Blvd	TELECOM	12"		2500'		PROTECT IN PLACE
478	SENER	SCG	REFINED SR14	UT-C4085-S14	2204+40 to 2215+46	San Fernando Blvd / Ledge Ave	GAS	3"	PSI	1200'		PROTECT IN PLACE
479	SENER	LADWP	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	WATER	8"	PSI	2050'		PROTECT IN PLACE
480	SENER	CITY OF LA	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	SEWER	8"	CFS	2200'		PROTECT IN PLACE
481	SENER	SCG	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	GAS	4"	PSI	2200'		PROTECT IN PLACE
482	SENER	LADWP	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	WATER	48"	PSI	2100'		PROTECT IN PLACE
483	SENER	PPS	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	OIL	20"				TO BE RELOCATED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
484	SENER	AT&T-SPRINT	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	TEL	4-2"		2100'		PROTECT IN PLACE
485	SENER	CITY OF LA	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	OIL	8"		2100'		PROTECT IN PLACE
486	SENER	WILLIAMS	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	TELECOM	12"		2100'		PROTECT IN PLACE
487	SENER	SCG	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	GAS	12" (ABAN)	PSI	2200'		TO BE REMOVED
488	SENER	WILLIAMS	REFINED SR14	UT-C4085-S14	2211+40	San Fernando Blvd / Avrila Ave	TELECOM			300'		PROTECT IN PLACE
489	SENER	LADWP	REFINED SR14	UT-C4085-S14	2211+40	San Fernando Blvd / Avrila Ave	WATER	6"	PSI	300'		PROTECT IN PLACE
490	SENER	LADWP	REFINED SR14	UT-C4085-S14	2205+00 to 2215+46	San Fernando Blvd / Avrila Ave	OH POWER		KV	2000'		PROTECT IN PLACE
491	SENER	SCG	REFINED SR14	UT-C4085-S14	2205+50	San Fernando Blvd	GAS	2"	PSI	300'		PROTECT IN PLACE
492	SENER	LADWP	REFINED SR14	UT-C4085-S14	2211+40	San Fernando Blvd / Ferncola Ave	WATER	12"	PSI	400'		PROTECT IN PLACE
493	SENER	LADWP	REFINED SR14	UT-C4085-S14	2204+17 to 2209+06	San Fernando Blvd / Ledge Ave	POWER		Kv	800'		PROTECT IN PLACE
494	SENER	LADWP	REFINED SR14	UT-C4085-S14			WATER	20"	PSI			PROTECT IN PLACE
495	SENER	AT&T	REFINED SR14	UT-C4085-S14	2195+00 to 2215+46	San Fernando Blvd	TEL			2100'		PROTECT IN PLACE
496	SENER	SCG	REFINED SR14	UT-C4086-S14	2229+80	Lockheed Dr	GAS	2"	PSI			PROTECT IN PLACE
497	SENER	BWP	REFINED SR14	UT-C4086-S14	2229+75	Lockheed Dr	WATER	10"	PSI			PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
498	SENER	LADWP	REFINED SR14	UT-C4086-S14	2226+90	Lockheed Dr	WATER	UNKNO WN	PSI			PROTECT IN PLACE
499	SENER	WILLIAMS	REFINED SR14	UT-C4086-S14	2222+40	San Fernando Blvd	TELECOM	12"				PROTECT IN PLACE
500	SENER	PPS	REFINED SR14	UT-C4086-S14	2218+80	San Fernando Blvd	OIL	20"	PSI			PROTECT IN PLACE
501	SENER	QWEST	REFINED SR14	UT-C4086-S14	2230+00	San Fernando Blvd	FIBER OPTIC	UNKNO WN				PROTECT IN PLACE
502	SENER	CITY OF LA	REFINED SR14	UT-C4086-S14	2219+10	San Fernando Blvd	OIL	8"	PSI			PROTECT IN PLACE
503	SENER	LACDPW	REFINED SR14	UT-C4086-S14	2230+00	Cohasset St	SEWER	8"	CFS			PROTECT IN PLACE
504	SENER	SCG	REFINED SR14	UT-C4086-S14	2216+05	San Fernando Blvd	GAS	4"	PSI			PROTECT IN PLACE
505	SENER	SCG	REFINED SR14	UT-C4086-S14	2221+40	San Fernando Blvd	GAS	12" (ABAN)	PSI			PROTECT IN PLACE
506	SENER	AT&T-SPRINT	REFINED SR14	UT-C4086-S14	2217+70	San Fernando Blvd	TELEPHONE	UNKNO WN				PROTECT IN PLACE
507	SENER	LADWP	REFINED SR14	UT-C4086-S14	2218+05	San Fernando Blvd	WATER	16"	PSI			PROTECT IN PLACE
508	SENER	LADWP	REFINED SR14	UT-C4086-S14	2228+60	Lockheed Dr	OH POWER	UNKNO WN	Kv			PROTECT IN PLACE
509	SENER	LACDPW	REFINED SR14	UT-C4086-S14	2225+90	Lockheed Dr	SEWER	8"	CFS			PROTECT IN PLACE
510	SENER	BWP	REFINED SR14	UT-C4087-S14	2232+00	Cohasset St	WATER	10"	PSI			PROTECT IN PLACE
511	SENER	LADWP	REFINED SR14	UT-C4087-S14	2231+50	Cohasset St	OH POWER	UNKNO WN	Kv			PROTECT IN PLACE
512	SENER	LACDPW	REFINED SR14	UT-C4087-S14	2230+30	Cohasset St	SEWER	8"	CFS			PROTECT IN PLACE
513	SENER	CITY OF BURBANK	REFINED SR14	UT-C4087-S14	2230+05	Cohasset St	WATER	12"	PSI			PROTECT IN PLACE
514	SENER	CITY OF BURBANK	REFINED SR14	UT-C4087-S14	2230+10	Cohasset St	OH POWER	UNKNO WN	Kv			PROTECT IN PLACE
515	SENER	SCG	REFINED SR14	UT-C4087-S14	2230+05	Cohasset St	GAS	2"	PSI			PROTECT IN PLACE
516	SENER	SCG	REFINED SR14	UT-C4585-S14		Tuxford St / Telfair Ave	GAS	4"		100'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
517	SENER	LADWP	REFINED SR14	UT-C4585-S14		Tuxford St / Telfair Ave	OH POWER		Kv	100'		PROTECT IN PLACE
518	SENER	LADWP	REFINED SR14	UT-C4585-S14		Tuxford St / Telfair Ave	POWER		Kv	100'		PROTECT IN PLACE
519	SENER	LADWP	REFINED SR14	UT-C4586-S14		Tuxford St / Bradley Ave	WATER	6"	PSI	150'		PROTECT IN PLACE
520	SENER	CITY OF LA	REFINED SR14	UT-C4586-S14		Tuxford St / Bradley Ave	SEWER	12"	CFS	150'		PROTECT IN PLACE
521	SENER	SCG	REFINED SR14	UT-C4586-S14		Tuxford St / Bradley Ave	GAS	12"	PSI	150'		PROTECT IN PLACE
522	SENER	SCG	REFINED SR14	UT-C4586-S14		Tuxford St / Bradley Ave	GAS	8"	PSI	150'		PROTECT IN PLACE
523	SENER	LADWP	REFINED SR14	UT-C4586-S14		Tuxford St / Bradley Ave	OH POWER		Kv	150'		PROTECT IN PLACE
524	SENER	AT&T	REFINED SR14	UT-C4008-S14	270+00 to 290+00	Sierra Hwy	FIBER OPTIC	4-1.5"	KV	2000'		PROTECT IN PLACE
525	SENER	CITY OF PALMDALE	REFINED SR14	UT-C4008-S14	270+00 to 276+00	6 th St	SEWER	8" VCP	PSI	500'		TO BE RELOCATED
526	SENER	PALMDALE WD	REFINED SR14	UT-C4008-S14	270+00	6 th St	WATER	12"DIP	PSI	600'		TO BE RELOCATED
527	SENER	U.S SPRINT	REFINED SR14	UT-C4009-S14	295+00 to 320+00	Sierra Hwy	FIBER OPTIC	UNKNO WN	PSI	2500'		TO BE RELOCATED
528	SENER	AT&T	REFINED SR14	UT-C4011-S14	345+00	Sierra Hwy	FIBER OPTIC	UNKNO WN	PSI	2500'		TO BE RELOCATED
529	SENER	SCE	REFINED SR14	UT-C4012-S14	376+20	Barrel Springs Rd	OH POWER	UNKNO WN	KV	1700'		TO BE RELOCATED
530	SENER	LADWP	REFINED SR14	UT-C4017-S14	520+00		OH POWER	550 KV	KV	900'		PROTECT IN PLACE
531	SENER	PG	REFINED SR14	UT-C4017-S14	518+00		OH POWER	500 KV	KV	900'		PROTECT IN PLACE
532	SENER	SCE	REFINED SR14	UT-C4017-S14	515+10		OH POWER	230 KV	KV	1000'		PROTECT IN PLACE
533	SENER	LACDPW	REFINED SR14	UT-C4022-S14	637+00		WATER	8"	PSI	1600'		PROTECT IN PLACE
534	SENER	LACDPW	REFINED SR14	UT-C4022-S14	628+50		WATER	12"	PSI	1000'		PROTECT IN PLACE
535	SENER	SCG	REFINED SR14	UT-C4022-S14	628+30		GAS	3"	PSI	3000'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
536	SENER	CITY OF LA	REFINED SR14	UT-C4077-S14	2005+20	San Fernando Rd	SEWER	8"	PSI	600'		TO BE REMOVED
537	SENER	CITY OF LA	REFINED SR14	UT-C4077-S14	1998+00	Montague St	SEWER	8"	PSI	2000'		PROTECT IN PLACE
538	SENER	LADWP	REFINED SR14	UT-C4077-S14	1998+00	Montague St	WATER	6"	PSI	2000'		PROTECT IN PLACE
539	SENER	AT&T	REFINED SR14	UT-C4078-S14	2020+00 to 2045+00	San Fernando Rd	TELE			2000'		PROTECT IN PLACE
540	SENER	VERIZON	REFINED SR14	UT-C4079-S14	2045+00 to 2070+00	San Fernando Rd	TELE			2000'		PROTECT IN PLACE
541	SENER	LADWP	REFINED SR14	UT-C4079-S14	2045+00 to 2070+00	San Fernando Rd	OH POWER			2500'		RELOCATE
542	SENER	LADWP	REFINED SR14	UT-C4079-S14	2057+00	Sheldon St	OH POWER			1800'		PROTECT IN PLACE
543	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14	2057+00	Sheldon St	SEWER	15"	PSI	400'		PROTECT IN PLACE
544	SENER	LADWP	REFINED SR14	UT-C4079-S14	2057+30	Sheldon St	WATER	6"	PSI	700'		PROTECT IN PLACE
545	SENER	CITY OF LA	REFINED SR14	UT-C4079-S14	2069+00	San Fernando RD	OIL	8"	PSI	2000'		RELOCATE
546	SENER	PALMDALE WD	REFINED SR14	UT-C4511-S14		5 TH St	WATER	20"	PSI	150'		TO BE RELOCATED
547	SENER	AUTHORITY	REFINED SR14	UT-C4519-S14			TP-POWER	230 KV	KV	2500'		PROPOSED
548	SENER	SCG	REFINED SR14	UT-C4582-S14			GAS	2"	PSI	1800'		PROTECT IN PLACE
549	SENER	LADWP	REFINED SR14	UT-C4582-S14			WATER	8"	PSI	500'		PROTECT IN PLACE
550	SENER	LADWP	REFINED SR14	UT-C4582-S14			OH POWER		KV	700'		PROTECT IN PLACE
551	SENER	FRONTIER	REFINED SR14	UT-C4582-S14			TEL OH		KV	800'		PROTECT IN PLACE
552	SENER	CITY OF LA	REFINED SR14	UT-C4582-S14			SEWER	12"	PSI	2000'		PROTECT IN PLACE
553	SENER	LADWP	REFINED SR14	UT-C4082-S14	2135+00	San Fernando/ Goss St	WATER	8"	PSI	3000'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
554	SENER	MWD	REFINED SR14	UT-C4082-S14	2137+00	San Fernando Blvd	WATER	48"	PSI	1000'		TO BE RELOCATED
555	SENER	PPS	REFINED SR14	UT-C4082-S14	2130+00	San Fernando Blvd	OIL	20"	PSI	1500'		TO BE RELOCATED
556	SENER	QWEST	REFINED SR14	UT-C4082-S14	2131+20	San Fernando Blvd	FIBER OPTIC	2X2"	PSI	1500'		TO BE RELOCATED
557	SENER	AT&T-SPRINT	REFINED SR14	UT-C4082-S14	2144+00	San Fernando Blvd	TELE	4-2"	PSI	400'		TO BE RELOCATED
558	SENER	CITY OF LA	REFINED SR14	UT-C4082-S14	2134+00	San Fernando Blvd	OIL	8"	PSI	2000'		TO BE RELOCATED
559	SENER	WILLIAMS	REFINED SR14	UT-C4082-S14	2121+00	San Fernando Blvd	TELE	12"	PSI	2500'		PROTECT IN PLACE
560	SENER	LAWD	REFINED SR14	UT-C4082-S14	2121+80	San Fernando Blvd	WATER	8"	PSI	2500'		PROTECT IN PLACE
561	SENER	LADWP	REFINED SR14	UT-C4082-S14	2140+70	San Fernando Blvd	WATER	20"	PSI	700'		PROTECT IN PLACE
562	SENER	SCG	REFINED SR14	UT-C4082-S14	2140+00	San Fernando Blvd	GAS	4"	PSI	800'		PROTECT IN PLACE
563	SENER	SCG	REFINED SR14	UT-C4082-S14	2141+60	San Fernando	GAS	12" ABAN	PSI	800'		TO BE REMOVED

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Appendix C: Utility Owner Contact Log

Refined SR14 Alignment– Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
1	SENER	Level 3 Communications (Telephone)	2015-12-17 To 2016-08-25	918-547-0007 (213) 929-2126 felix.vigil@level3.com (949) 672-0403 gerardo.issasi@level3.com (949) 275-1419	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-17: Email sent to Gerry Issasi with attached letter and maps</p> <p>2015-12-30: Updated correction to telephone no.</p> <p>2016-01-14: Confirmed with Gerry that Felix is the point of contact for LA; Called Felix; no response; sent email to follow up</p> <p>2016-01-15: Confirmed with Felix he is the point of contact for LA area; emailed him TG grid pages with markups</p> <p>2016-02-17: Received some snapshots of their facilities in the project research area. Will received more detailed plans by the end of the week</p> <p>2016-6-24: resent letter by email + Google Earth file, also requested further details to previous response</p> <p>2016-8-2: CN resent letter again by email + Google Earth + GIS, also left voicemail</p> <p>2016-8-3: Caleb King emailed, they will respond by 9/9</p> <p>2016-8-10: Caleb verified by email that he is responsible for all of California.</p> <p>2016-8-19: CN sent maps previously received to Caleb to ask for clarification and drawings.</p> <p>2016-8-24: CN emailed Caleb to request phone number, his sig file shows Oklahoma address, no number.</p> <p>2016-8-25: Caleb responded with phone number, requested Google Maps image of research area, offered to look into it himself. CN emailed Google Earth file + jpg maps Level 3 sent previously.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
2	SENER	Time Warner Cable (Charter)	2016-01-07 To 2016-08-24	john.jacinto@charter.com (714) 591-4878 (Dave's new #) O: (310) 647-5167 C: (714) 920-6026 west-engineering-relo@twcable.com dave.bell@charter.com	TAGC/Ray Wang HDR/Cherie Nixon	HDR to review maps; need to request maps 1&2 larger size 2016-01-07: Requested larger maps since they are not legible; waiting for response 2016-01-20: Called Dave Bell; would like us to email him of our concerns and he will forward the email/follow up with the group; Sent email to follow up 2016-01-26: Received new maps; still not legible 2016-02-22: Bell emailed us to let HDR know he has been passing the information along to the group to respond back with legible maps. 2016-03-21: received email w vague but legible pdf maps (via Roberto Rodriguez). 2016-5-6: rec'd email w vague pdf map (from westengrelo via Roberto Rodriguez) 2016-8-10: CN emailed westengrelo to request drawings that show distance to street CL. 2016-8-11: westengrelo emailed that they don't have drawings showing distance to CL. 2016-8-16: CN emailed Dave Bell to ask if there's any way to obtain drawings that show distance to CL. (Auto-response shows Dave's new Charter email after merger.) 2016-8-17: Dave suggested contacting John Jacinto at Charter, as well as westengrelo. 2016-8-23: CN emailed letter + Google Earth + GIS to John requesting detailed drawings. 2016-8-24: John ("JJ") replied to say he would look into it to see what they can provide.
3		Newhall County Water	5/2/2016	(661) 259-3610 jjenkins@ncwd.org	TAGC/Ray Wang HDR/Cherie Nixon	5/2 - rec'd CAD + pdf files for Danielle Burleson Drawings don't show distance from CL - check CAD drawings. TAG to verify that CAD locations are correct (contact NCWD).

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
4	SENER	Southern California Edison (SCE) Overhead Power Transmission	2015-12-30 To 2016-09-20	(714) 796-9932 maprequests@sce.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-30: Sent out email with attached letter for utility request</p> <p>2015-12-31: Emailed to respond request was received; currently in progress</p> <p>2016-01-05; SCE would like a shape file for the project research area</p> <p>2016-01-13: HDR sent SCE .dgn & .kmz file of the research area</p> <p>2016-01-20: SCE sent non-disclosure agreement</p> <p>2016-8-2: CN emailed & left vm for Dennis Kim of RDP to ask about agreements.</p> <p>2016-8-5: Dennis called CN, he is checking if we already have NDA with them.</p> <p>2016-8-18: Dennis emailed to let us know we do have an NDA with them. CN emailed Kim with 4/20 letter + Google Earth + GIS files requesting as-builts.</p> <p>2016-8-19: Kim emailed to ask if the NDA was project specific, CN responded to say yes.</p> <p>2016-8-24: Kim emailed to ask about the NDA (under HDR?), CN responded that it could be the CHSR Authority, Rail Delivery Partner, Cordoba Corporation, or Parsons Brinkerhoff. Kim also sent an invoice for \$81.30, CN forwarded to TAG to request payment.</p> <p>2016-8-25: CN called Kim, invoice for a diff HDR project. Kim can't find NDA, explained their rules. CN emailed Dennis Kim requesting copy of NDA. Dennis said he will email it tomorrow morning.</p> <p>2016-8-25: CN emailed Google Earth file + alignment exhibit to Kim as requested. CN emailed RDP Dennis Kim to request NDA.</p> <p>2016-8-26: Dennis Kim sent NDA.</p> <p>2016-8-30: CN emailed NDA to Kim, Kim said they can't accept it. CN emailed Joe McNeely to request that HDR sign its own NDA.</p> <p>2016-9-6: Joe requested resolution for RDP, Rick Simon said CN to contact Dennis Kim at RDP.</p> <p>2016-9-9: CN emailed Dennis Kim to request that HDR sign NDA directly with SCE.</p> <p>2016-9-20: CN called Dennis Kim to follow up. He will discuss it with the CHSR lawyer and get back to CN.</p>
5	SENER	SCE - Telecom	2016-04-23 to 2016-08-24	(626) 308-6186	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-4-23: Letter received by SCE Telecom.</p> <p>2016-8-2: CN emailed & left vm for Dennis Kim of RDP to ask about agreements.</p> <p>2016-8-5: Dennis called CN, he is checking if we already have NDA with them.</p> <p>2016-8-8: Dennis emailed to let us know we do have an NDA with them. CN to follow up after NDA found.</p> <p>2016-8-24: CN called number for Tommy Savage, voicemail to someone else's name. Requested Tommy's number.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
6	SENER	ATT - Distribution	2016-01-04 to 2016-09-01	(510) 645-2929 (Mary) ma2797@att.com (626) 817-4235 (Kathy) PM1736@att.com (626) 817-4289 (Cathy) al6941@att.com (626) 390-342	TAGC/Ray Wang HDR/Cherie Nixon	Would like a list of TG map grids 2016-01-04: Emailed a list of TG grids; waiting for response 2016-01-26: Called; no response 2016-02-10: ATT emailed back to ask more questions about billing for the map request and for more detail of project location; HDR response is to send TG maps; ATT called and state TG pages are too vague and need the exact street crossings 2016-02-15: HDR asked the pricing per grid or intersection 2016-03-02: HDR responded by sending .kmz file for clarity and described the research location in email 2016-03-03 more calls & email clarification w Mary Ramos & Kathy Montoya, requested fee estimate 2016-03-04 Mary Ramos emailed fee invoice, \$501.40 2016-4-28: Mary Ramos called, need specific streets & intersections, and payment for previous request TAG to pay \$501.40 fee, Cherie to clarify remaining info with Mary Ramos. (CN gathering info for Mary.) 2016-8-1: TAG has sent the check with \$501.40 to Mary/AT&T. 2016-8-3: CN emailed Mary with description, requested cost estimate of additional as-builts. 2016-8-11: Mary called for clarification, said she mailed first package this week. 2016-8-15: HDR received first set of as-builts, saved to PW. 2016-8-17: Mary left voicemail requesting TG pages with narrowed request area highlighted 2016-9-1: Kathy Montoya sent invoice \$1286.20. TAG to pay invoice (not paid yet), CN preparing sketches to send.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
7	SENER	Los Angeles Department of Water and Power (LADWP)	2015-12-30 To 2016-08-20	(213) 367-4957 Edgar.Mercado@ladwp.com (213) 367-2715 Ernest.Fresquez@ladwp.com Charles.Dunn@ladwp.com Jeffrey.Williams@ladwp.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-20: Left voicemail 2016-01-26: Spoke with Ernie; would like TG map pages to narrow down the research area; sent to Ernie 2016-6-24: resent letter by email + Google Earth file 2016-7-18: called & emailed to follow up, resent list of TG grids + 4/20 letter + Google Earth file, voicemail 2016-7-18: reached Ernie, leaving the group, recommended contacting his boss, Edgar Mercado. Emailed Edgar 2016-4-20: letter, Google Earth file, left voicemail. 2016-8-3: TAGC called & left voice message to Edgar. 2016-8-10: TAG called & left voice message to Edgar. No response. 2016-8-15: TAG emailed & left voice message to Edgar again. No response yet. 2016-8-18: TAG emailed 4/20 letter + Google Earth + TG pages to Charles Dunn & Jeffrey Williams. 2016-8-19: Charles Dunn emailed TAG, too busy for large requests, recommended Navigate LA + Google Earth/field review. TAG to follow recommendations. 2016-8-20: TAG will use substructure map from Navigate LA +Google Earth/field review to figure out the LADWP facilities. This line item can be move to the lower priority.
8	SENER	Air Touch Cellular (Telephone)	2015-12-23 To 2016-02-26	(818) 898-2352 matthew.kang@cableeng.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-23: Would like a list of TG map grids 2016-01-04: Emailed a list of TG grids; waiting for response 2016-01-06: Emailed Thomas Guide Pages with markups 2016-01-07: Response it will take then 1-2 months to complete the research since it's a major request 2016-02-22: Sent follow up email to Air Touch Cellular 2016-02-23: Followed up in email; they will send info to HDR soon 2016-02-24: HDR sent email to Kang for Sharepoint login/upload 2016-02-26: Air Touch Cellular sent us information on their facilities via email; HDR to review.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
9	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	2016-02-11 To 2016-10-12	Sam Queszada 4th floor, Survey Department, 900 S Fremont Ave Alhambra, CA 91803	TAGC/Ray Wang HDR/Cherie Nixon	2016-2-11: Shane downloaded a few pdfs in Palmdale for website -> TAG to search for more as-builts online, find contact name (check with Stan Pegadiotes from San Districts) 2016-7-28: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather sewer plans. 2016-8-1: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather ALL sewer as-builts. Those drawings are all within the City of Palmdale. 2016-8-2: Hank Fung also emailed conceptual sewer maps to HDR. 2016-10-12: TAG evaluated the as-built and input applicable information in CAD base. uploaded files in 4.10 folder in PW.
10	SENER	AT&T - Transmission	2015-12-30 To 2016-06-27	(213) 787-9996 mg1371@att.com g05131@att.com (cc this email)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-06: Emailed confirmed there are no AT&T TCA facilities in the project area 2016-6-24: resent 4/20 letter by email + Google Earth file 2016-6-27: Maria forwarded original 6/13 response
11	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	2016-07-01 To 2016-08-08	(626) 458-3980 Fung hfung@dpw.lacounty.gov (626) 458-3935 Swindle	TAGC/Ray Wang HDR/Cherie Nixon	2016-7-01: Letter drafted, waiting for internal approval 2016-7-18: Letter sent + email with comments, called Hank Fung. Hank said they can look for the plans, also advised coming in to check microfiche, and checking with the Army Corps of Engineers. 2016-7-19: Hank requested GIS files used to create Google Earth file. 2016-7-20: Hank requested we resend Google Earth file. Resent Google Earth + GIS files. 2016-7-26: Hank emailed to let us know they're working on gathering as-builts for us. 2016-7-28: Bill asked if LACFC has facilities in Palmdale, emailed Hank, he confirmed none. 2016-8-2: Hank Fung will mail SD as-builts to Cherie/HDR.8/ 2016-8-4: Hank Fung has 1.4G files ready for TAG to pick up. 2016-8-8: TAG has copied the 1.4G files from Hank Fung.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
12	SENER	County Sanitation Districts of Los Angeles County (LACSD)	2016-02-11 to 2016-08-25	(562) 908-4288 x1204, x1205 (engineering counter) engineeringcounter@lacsdc.org (562) 908-4288, x1620 (Stan P) Klipock@lacsdc.org	TAGC/Ray Wang HDR/Cherie Nixon	2016-2-11: Shane emailed engineering counter to request as-builts for portion in Palmdale (not allowed to request larger area at that time, 4/20 letter addressed to LACDPW) 2016-2-24: Koesen Lipock for eng counter emailed link to Shane, 119 pg pdf 2016-7-19: emailed 4/20 letter to eng counter, request remaining as-builts 2016-7-20: Koesen requested map, can't open kmz file, emailed pdf. 2016-7-23: Stan Pegadiotes emailed, no longer with sewer design section. 2016-7-25: Koesen emailed link, CN forwarded to TAG. (7/27 forwarded email to TAG.) 2016-7-29: TAG emailed a sewer drawing list to LACSD Engineering Counter. 2016-8-2: Koesen emailed to mention that they are working on the collection of sewer as-builts. 2016-8-4: Koesen emailed a link to the drox for TAG to download the sewer as-builts. TAG has downloaded them and uploaded to PW. 2016-8-11: TAG coordinated with Koesen for collecting some additional as-builts that we've not gathered last time. no response yet. 2016-8-16: Koesen responded that he will upload the additional as-built to the box (FTP) 2016-8-24: TAG emailed to request a status. 2016-8-25: TAG has downloaded all additional as-built drawings from LACSD. This line item can be moved to the lower priority.
13	SENER	Metropolitan Water District	2015-12-14 To 2016-06-07	(213) 217-6534 (213) 217-7474 szareh@mwdh20.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-14: Provided HDR a card for project refence ID 2015-12-21: As-builts received 2016-5-26: rec'd letter w as-built plans 2016-6-7: replied requesting missing document listed in letter

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
14	SENER	Palmdale Water District	2016-05-20 To 2016-07-28	(661) 456-1022 (661) 947-4111 (Eng Dept.) mwest@paldalewater.org mknudson@palmdalewater.org	TAGC/Ray Wang HDR/Cherie Nixon	2016-5-20: met w Matthew Knudson, Joe McNeely, Roberto Rodriguez (Sener), RDP 2016-6-24: resent letter by email + Google Earth file (to MK, cc MW) 2016-7-19: resent letter by email + Google Earth file (to MW, cc MK), also emailed Roberto Rodriguez to check if he had received anything 2016-7-20: left voicemail for Michael West. He called back, requested narrower research area. We'll add him to Sharepoint, he'll look into the GIS files that Matt promised, and the as-built drawings. Emailed GIS files of research boundary + narrower as-built boundary. 2016-7-21: Richard Heinonen emailed GIS files. Mike West now has Sharepoint access to upload as-builts, emailed link & password. 2016-7-25: Mike West emailed re Sharepoint issues. CN responded with suggestions. 2016-7-26: Mike West emailed to verify mailing address, will send a disk in the mail. 2016-7-28: Received disk from Mike West with pdf as-builts.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
15	SENER	Plains All American Pipeline (Oil)	2015-12-30 To 2016-09-07	(562) 728-2817 (Becky Sitton) bsitton@paalp.com (562) 728-2371 pjbawden@paalp.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-04: Left voicemail to follow up 2016-01-15: Spoke with Paula; would like us to email them TG pages with markups; follow up next week for the map request 2016-02-04: Sent out follow up email 2016-02-17: Left voicemail to follow up 2016-02-22: Called at 1:15 PM; no response 2016-02-23: Received email Becky Sitton will be working on HSR 2016-02-24: Becky will be sending us information in the mail; will send hardcopy in mail 02/25 2016-02-29: Received hardcopies of the plans in the mail from Plains; HDR to review 2016-4-23: Letter received by Plains 2016-5-11: email to ask if we want duplicates for previous request, responded no 2016-5-17: hard copies received - appear to be as-builts, but can't find distance for street CL 2016-8-5: CN verified to Becky Sitton that we have all as-builts in the Metrolink R/W (after series of emails that turned out to be irrelevant.) 2016-8-18: CN emailed Becky to verify shared trench w Centurylink (was Qwest), Becky confirmed. 2016-9-6: CN emailed Becky to ask if any of their pipe is above ground. 2016-9-7: Becky replied that it's all underground except at Hollywood Way where it is encased in cement, and Pacoima Wash where it hangs on the bridge.
16	SENER	State of California, Department of Water Resources	2016-05-27 To 2016-06-20	(661) 994-8574 jdes@water.ca.gov	TAGC/Ray Wang HDR/Cherie Nixon	no response, HDR and/or RDP planning to meet with them 2016-5-27: DWR gave as-builts to the RDP (see 05.11.02 folder) 2016-6-20: DWR gave hydrology report to the RDP (See 05.11.02 folder)

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
17	SENER	AT&T - Transmission (Telephone)	2015-12-28 To 2016- 08-25	(714) 963-7964 (Forkert) joef@forkertengineering.co m (925) 997-2413 (Hamill) (714) 963-7964 (Shapzian) (559) 442-2252 (Shermoen)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-28: Responded with two letters; Sending AT&T plans in the mail (hardcopies) 2015-12-30: Received Plans and letter hardcopies in the mail; HDR to review 2016-5-3: email w lease letter & conflict letter 2016-5-9: received hard copies in the mail 2016-8-24: CN left voicemail asking Joe to call me re where to find cable locating dimensions in as-builts. 2016-8-25: Joe called CN, explained leased vs owned. They can provide maps of owned conduit, contact other AT&T Dig Alert contacts for leased conduit. Mapping shows as-builts at Metrolink Ventura sub, mapping in other locations.
18	SENER	Los Angeles County Water Works	2016-02-24 To 2016- 09-20	(661) 300-3337 bhua@dpw.lacounty.gov jkitto@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-02-24: Bing Hua emailed, uploaded pdfs to Sharepoint site 2016-5-3: Bing emailed to let us know that they have no additional facilities in the new research area that they hadn't already sent 2016-7-26: Jason Kitto asked for shape files of research area, CN emailed them. Also emailed list of pdfs that Bing Hua sent in Feb to avoid duplicate efforts. 2016-7-28: Jason Kitto asked for GIS or Google Earth file of alignments, CN emailed it. 2016-8-1: TAG visited LAC Water Works (Jason Kitto, 2nd floor Water Resource Dept.). He said that he has completed the water research and it will take 3-4 weeks for them to gather as-builts and send directly to Cherie/HDR. 2016-9-20: CN emailed Jason Kitto to follow up on status of request. Jason called and said that what Bing sent covers everything they have in our research area.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
19	SENER	Southern California Gas (SCG) - Transmission	2015-12-30 To 2016-08-24	(818) 701-3253 (Chris Coria) Ccoria@semprautilities.com (818) 701-6679 (818) 701-4546 rsquires@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-14: Resent letter by email to Rosalyn; asked us to follow up next Tuesday 01/19 2016-01-15: Sent Squires .kmz file per request 2016-01-15: Squires sent plans per request; HDR to review 2016-5-5: Estafania Sanchez requested Google Earth file of request area 2016-6-22: emailed Google Earth file to Estafania 2016-6-24: Estafania called to verify what we need, and to check if our previous request was fulfilled 2016-6-27: Estafania tried to email files, but they didn't come through. Janet will add her to the Sharepoint site. 2016-6-28: Sharepoint access didn't work, so Estafania sent info through multiple emails. 2016-8-23: CN emailed Estefania to request as-builts, priority Ave S (currently have maps with distances but not as-builts. 2016-8-24: Estefania responded that another engineer can work with us to send as-builts after we send preliminary construction drawings. CN requested contact info for that engineer, Estefania gave Chris Coria's info. CN emailed Chris to request as-builts of gas mains in Ave S. 2016-9-6: CN emailed to ask if any of their pipes are above ground. 2016-9-9: Estafania responded to ask for clarification, CN responded.
20	SENER	T-Mobile (Telephone)	2015-12-09 To 2016-06-27	(818) 840-0808 (805) 279-3513 shenderson@synergy.cc glake@synergy.cc	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-09: Gregg Lake emailed pdfs package returned 2016-6-24: resent letter by email + Google Earth file 2016-6-27: Gregg Lake emailed, didn't receive letter, send directly to him next time. No utilities.
21	SENER	XO Communications (Telephone) - Los Angeles	2015-12-07 To 2016-08-23	(949) 417-7841 matt.bergine@xo.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-07: Need to review information provided 2016-4-27: received pdf as-builts 2016-8-2: CN emailed Matt to ask questions about the drawings they sent. 2016-8-3: Matt responded with answers to questions.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
22	SENER	City of Palmdale	2015-12-30 To 2016-10-12	(661) 267-5347 (Deyo) jdeyo@cityofpalmdale.org (661) 267-5272 (Autry) sautry@cityofpalmdale.org (661) 267-5337 (Behen) mbehen@cityofpalmdale.org g (661) 267-5300 (Gen City No.) bpadilla@cityofpalmdale.org	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-04: Stephanie Autry from City of Palmdale responded to email; Fwd email to Bill Padilla, City Engineer; waiting for response 2016-01-05: Email confirmed that the project research area is not in their City's limits 2016-4-27: Jim Deyo emailed GIS files for sewers 2016-7-26: TAG Sent email to Jim GIS +Google Earth and April Letter pdf requesting storm drain As-builts; 7/26 Received Storm Drain GIS Files from Jim. 2016-7-26: TAG left a voicemail message to Jim no response. 2016-8-1: Jim emailed TAG, sending CD with storm drain as-builts today 2016-8-2: TAG asked Jim who should be contacted for other as-builts such as roadway, water, lighting, etc. Jim said Engineering section. He will also forward this request to City Engineer. Engineering Section will collect everything in next couple of weeks. TAG will follow up. 2016-8-10: TAG emailed Jim Deyo to confirm if he has mailed to CD to us but he has not done yet due to waiting for other utility as-builts together. 2016-8-24: TAG followed up and Jim Deyo responded and he is still waiting for other as-builts. Eng Dept. has several large data requests and they are busy. will find out when they can have all the information. 2016-8-29: TAG emailed Jim to request if he can send whatever available information to us and send a separated mail for the remaining files. 2016-9-1: Jim emailed TAG to confirm mailing address. 2016-9-7: TAG received 8 disks of CD from CoP (Jim), will evaluate the as-builts and upload the files to PW. 2016-10-12: TAG evaluated the files which are "1A". The files were saved in 4.10 folder in PW.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
23	SENER	Los Angeles County Department of Public Works (LACDPW)	2016-01-04 To 2016-08-25	(626) 458-3109 dchenowe@dpw.lacounty.gov jhouse@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-01-13: Contact Anne Marie Gilmore and Kari Eskridge from 710 project for LACDPW utility coordinator; Eskridge provided contact, Daryll Chenoweth; called and confirmed Daryll Chenoweth is the contact & provided mailing address; sent letter hardcopy in mail & email 2016-4-26: Daryll emailed long description for how to pursue further info 2016-8-25: TAG has followed Daryll's email instructions and collected the as-builts for sewer, storm drain, Street Lighting (limited information). See other LACDPW line items for more info.
24	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	2016-07-28 To 2016-08-24	(626) 300-4753 jchow@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-7-28: TAG visited LACDPW street lighting Dept. (Jeff Chow 1000 Fremont 4th floor). He'd forward the info to Hank Fung that day. 2016-8-11: TAG emailed Jeff Chow to confirm if he could send as-builts to us since Hank did not include street lighting as-builts. Jeff is on vacation and be back on Aug 15. 2016-8-17: Jeff and Jimmy sent a pdf showing street lighting drawing number. 2016-8-18: TAG emailed Jeff to request real as-built drawings. 2016-8-24: Jeff Chow responded and instructed that Street Lights are owned and maintained by SCE. Any as-builts drawings can be requested from SCE.
25	SENER	Time Warner Cable (Telephone)		(661) 259-6909 dianell.caamano@twcable.com	HDR/Cherie Nixon	package returned follow up with Dave Bell

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
26	SENER	SCG - Distribution Valencia/ Branford/ Saticoy/ Lancaster (Gas)	2016-01-04 To 2016- 08-24	(818) 701-3335 (Bruce) (818) 701-3448 tbruce@semprautilities.com bwimmer@semprautilities.com elewis3@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>Would like more detail on the alignments on Thomas Guide Map</p> <p>2016-01-04: Emailed a list of TG grids; waiting response to Timothy Bruce</p> <p>2016-01-11: Received an invoice from SCG before they can distribute the plans</p> <p>2016-02-25: SCG Dist sent in the mail a CD with the plans</p> <p>2016-03-01: HDR received CD with plans</p> <p>2016-5-20: letter w invoice \$1512 (Timothy Bruce)</p> <p>2016-7-25: email & voicemail to Tim to check status, back from vacation tomorrow.</p> <p>2016-7-26: Tim emailed to confirm we still owe \$1512. HDR reminded the RDP.</p> <p>2016-8-2: CN emailed & left vm for Dennis Kim of RDP to ask about agreements.</p> <p>2016-8-5: Dennis called CN, suggested asking Juan Carlos to approve payment.</p> <p>2016-8-10: RDP approved payment of \$1512, TAG to pay fee.</p> <p>2016-8-15: TAG mailed the check of \$1512 to SCG (Billing Dept.)</p> <p>2016-8-16: CN emailed Tim to let him know the check is in the mail, and to request an estimate of when we will receive the drawings.</p> <p>2016-8-19: Tim Bruce emailed, said he's putting CD w as-builts in the mail.</p> <p>2016-8-24: HDR received CD w atlas sheets. CN emailed to request clarification of legend. Tim sent legend.</p>

Appendix D: Utility Log Index

Heading	Explanation
No.	Sequentially number each entry
Region	Regional Consultant
Owner	Utility Owner
Contact	Name of the contact person representing the Owner
Title	Job title of the contact person representing the Owner
Address	Street Address, City, and Zip Code of the Owner's contact location
Phone	Phone number for Owner's representative
Email	Email address for Owner's representative
HSR Alignment	High-Speed Train Alignment Subsection Alternative
Station	Stationing along the alignment to locate the facility
Facility Type	Type of utility being conveyed
Size	Size of utility facility
Units	Units of measure for the size of utility
Length	Length of utility being impacted - Use separate entries for abandonment and relocated utilities
% Cost Allocation	Percentage of construction cost to be borne by CHSRA (requires input by CHSRA)
Disposition	State the type of work being performed (removed, relocated, protect in place)
Date	Date of contact with Owner
Correspondence Type	Type of correspondence with Owner (phone, fax, letter, email)
Description	Description of the discussion and/or request. Include reference to email or letter dates

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California High-Speed Rail Authority

Palmdale to Burbank Project Section

DRAFT PEPD ADDENDUM
SR14A / E1A / E2A

Appendix 3.6-A High Risk &
Major Utilities Impact Report
E1A/E2A

August 2022



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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ACRONYMS AND ABBREVIATIONS

ANF	Angeles National Forest
Authority/CHSRA	California High-Speed Rail Authority
CEQA	California Environmental Quality Act
CFS	Cubic Feet per Seconds
CHSTP	California High-Speed Train Project
DERiM	Distributed Energy Resource Interconnection Map
DPW	Department of Public Works
EIR	Environmental Impact Report
EIS	Environmental Impact Study
FRA	Federal Railroad Administration
GIS	Geographic Information System
HDC	High Desert Corridor
HMF	Heavy Maintenance Facilities
HSR	High-Speed Rail
kV	Kilo Volts
LACWD	Los Angeles County Waterworks Department
LACFCD	Los Angeles County Flood Control District
LADWP	Los Angeles Department of Water and Power
LMF	Light Maintenance Facility
MWD	Metropolitan Water District
NB	North Bound
NEPA	National Environmental Policy Act of 1969
OH	Overhead
PAA	Preliminary Alternatives Analysis Report
PB	Palmdale to Burbank
PSI	Pounds per Square Inch
RDP	Rail Development Partners
RSA	Resource Study Area
ROW	Right of Way
SAA	Supplemental Alternatives Analysis
SB	South Bound
SCE	Southern California Edison
SCG	Southern California Gas (The Gas Company)
SCRRA	Southern California Regional Rail Authority (Metrolink)
SGMNM	San Gabriel Mountains National Monuments

SR	State Route
TC	Transportation Center
TM	Technical Memorandum
TPSS	Traction Power Substation
UG	Underground
UPRR	Union Pacific Railroad
WD	Water Department

1 INTRODUCTION

The planning, design, construction, and operation of the California High-Speed Rail (HSR) System are the responsibility of the California High-Speed Rail Authority (Authority), a state governing board formed in 1996. The Authority's statutory mandate is to develop an HSR system coordinated with the state's existing transportation network, including intercity rail and bus transit, regional commuter rail transit, urban rail and bus transit, highways, and airports. The Authority's plans call for high-speed intercity train service on more than 800 miles of track throughout California, connecting the major population centers of Sacramento, the San Francisco Bay Area, the Central Valley, Los Angeles, the Inland Empire, Orange County, and San Diego. Implementation of the California HSR System is planned in two phases. Phase 1 would connect San Francisco to Los Angeles and Anaheim through the Central Valley. Phase 2 would connect the Central Valley (from Merced) to Sacramento, and another extension is planned from Los Angeles to San Diego. The HSR system would meet the requirements of Proposition 1A, including maximum, nonstop service travel time between San Francisco and Los Angeles of two hours and 40 minutes.

The Palmdale to Burbank Project Section would be a critical link in the Phase 1 HSR system connecting San Francisco and the Bay Area to Los Angeles and Anaheim. In 2005, the Authority and the Federal Railroad Administration (FRA) relied on Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) documents to select the State Route (SR) 58/Soledad Canyon and Metrolink corridors as the preferred alignment between Bakersfield and Sylmar, with a station in the City of Palmdale. This alignment would extend east from Bakersfield along SR-58, generally following SR-58 through the Tehachapi Mountains to Mojave, along Metrolink corridors through Antelope Valley and Soledad Canyon, and generally follow SR-14 from the City of Santa Clarita to Sylmar in the City of Los Angeles (FRA 2005). The SR-58/Soledad Canyon and Metrolink corridor from Bakersfield to Los Angeles was later split into two sections for more detailed project-level evaluation: the Bakersfield to Palmdale Section and the Palmdale to Los Angeles Section.

Public scoping conducted in 2007 defined the Build Alternatives for the Palmdale to Los Angeles Section. Refer to the Palmdale to Los Angeles Preliminary Alternatives Analysis Report (PAA) (2010), and the Palmdale to Los Angeles Supplemental Alternatives Analysis (SAA) Reports (2011, 2012, and 2014) for this alignment and station screening evaluation process.

The May 2014 SAA recommended to split the Palmdale to Los Angeles Section into two distinct sections: Palmdale to Burbank and Burbank to Los Angeles. Following this recommendation, a second public scoping period took place from July to September 2014, and the Palmdale to Burbank SAA Report (2015) was presented to the Authority Board of Directors in June 2015. The Authority subsequently explored alignment refinements to address concerns raised at the June 2015 Board meeting and through previous stakeholder outreach. The 2016 SAA, presented to the Authority Board of Directors in April 2016, reflects refinements to the rail alignments, stations, and ancillary features presented in the 2015 SAA, which ultimately became the basis for the Build Alternatives analyzed herein.

This report provides additional information to supplement the *Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report E1* and *Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report E2* (California High-Speed Rail Authority [Authority] 2019). The information described in this report was developed during the preparation of the Draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the Palmdale to Burbank Project Section of the California High-Speed Rail System, subsequent to the completion of the High Risk and Major Utilities Impact Report. As such, preparation of a supplement to the *Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report E1* and *Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report E2* was needed and applicable.

Through consultation with resource agencies, the Authority developed additional Build Alternatives to reduce impacts to aquatic resources south of the city of Palmdale (i.e. Una Lake).

This Alignment Report Supplement includes previously undisclosed information on the E1A, and E2A Build Alternatives in the alignment sections that are not coincidental with E1 and E2 alternatives, and therefore were not defined in the *Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report E1* and *Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report E2* (California High-Speed Rail Authority [Authority] 2019).

2 PROJECT DESCRIPTION

The Palmdale to Burbank Project Section includes six Build Alternatives that would extend approximately 38- to 43-miles through a variety of land uses and ecoregions, including urban, rural, and mountainous terrain in Southern California. From the north, this project section would begin at Avenue L in Lancaster, head south through the Palmdale Transportation Center (TC) Station, continue southwest beneath the Angeles National Forest (ANF), and then enter the San Fernando Valley where it would connect with the Burbank Airport Station and terminate just north of Winona Avenue. This project section also includes a Maintenance Facility in the Lancaster area.

2.1 Alternatives

The Authority initially identified three Build Alternatives to be analyzed in the Palmdale to Burbank Project Section EIR/EIS, which were developed through its Supplemental Alternatives Analysis (SAA) process (Refined SR14, E1, and E2). Subsequently, and through consultation with resource agencies, the Authority developed additional Build Alternatives to avoid and minimize impacts to aquatic resources south of the city of Palmdale (e.g., Una Lake). These new alignments depart from the initial Build Alternatives near East Avenue R where these alignments curve eastward and pass Una Lake to the east. The new alignments continue south and then join, at varying locations, the alignments associated with the three initial Build Alternatives. The new alternatives are referred to as the SR14A, E1A, and E2A Build Alternatives. Figure 2 1 depicts the SR14A, E1A, and E2A Build Alternatives relative to the Refined SR14, E1, and E2 Build Alternatives.

Consistent with the Refined SR14, E1, and E2 Build Alternatives, the SR14A, E1A, and E2A Build Alternatives would include the following alignment types:

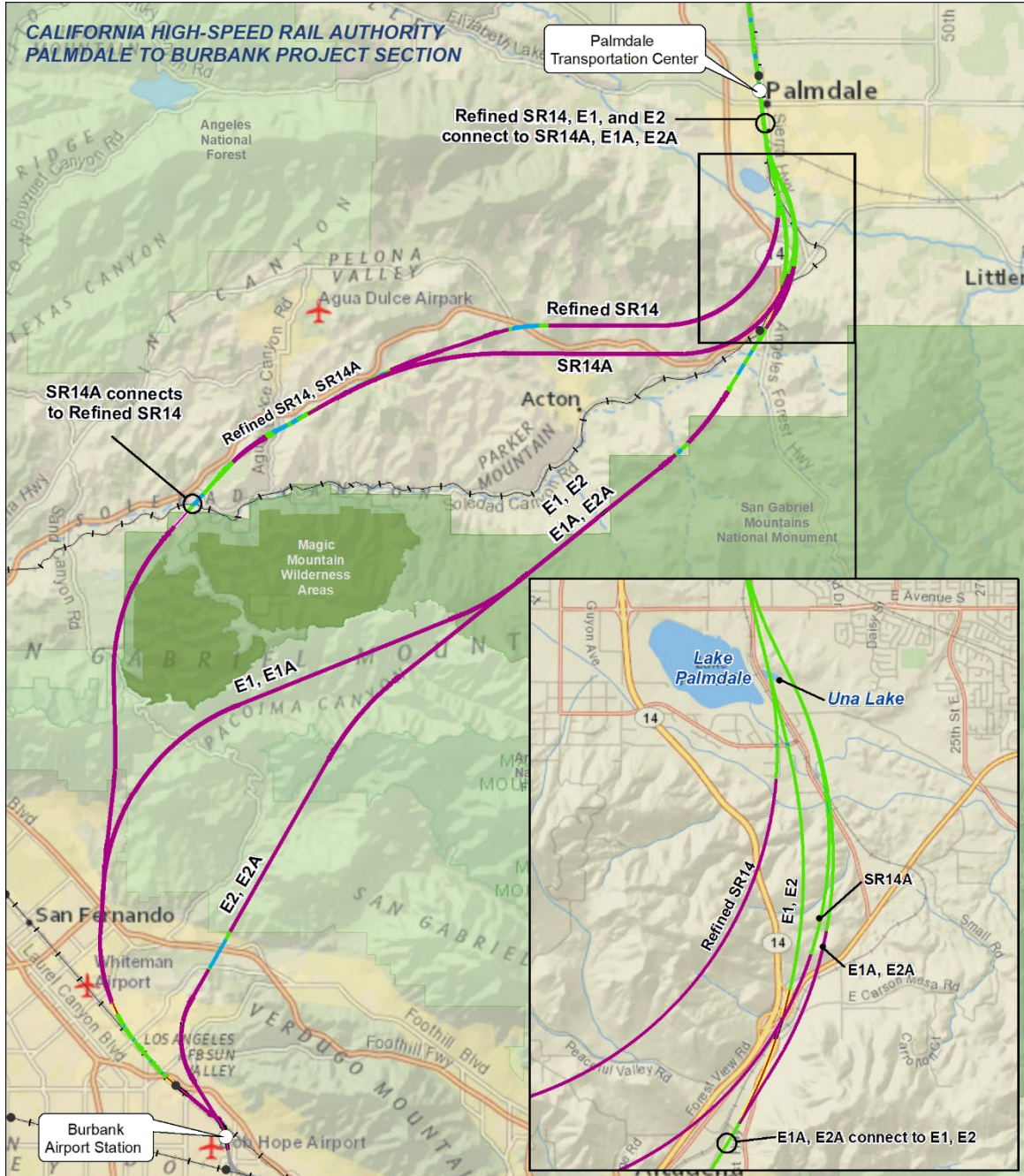
- **At-Grade Profile**—This alignment type would follow the existing ground level, often with minor cuts and fills.
- **At-Grade Covered**—This alignment type would follow the existing ground level in tunnels covered with fill.
- **Cut-and-Cover Profile**—This alignment type would be constructed below ground surface in a shallow, covered trench.
- **Retained Cut/Trench Profile**—This alignment type would resemble the cut-and-cover profile but would be uncovered and would require retained trench walls.
- **Tunnel Profile**—This alignment type would be constructed in bored tunnels with depths ranging from 100 feet to 2,500 feet.
- **Elevated/Aerial Structure**—This alignment type would be constructed in elevated structures supported by concrete columns to cross above roadways, streams, railroads and rugged terrain.

Tunnels would allow the Build Alternatives to traverse large areas without directly affecting surface conditions. Table 2-1 compares the length of tunnels associated with each of the Build Alternatives. The SR14A Build Alternative would require the longest length of tunnels, while the E2 Build Alternative would require the shortest.

Table 2-1 Build Alternative Tunnel Lengths

Build Alternative	Tunneled Alignment Lengths (Linear Miles) in miles
Refined SR14	25.58
SR14A	28.86
E1	24.64
E1A	26.31
E2	22.48
E2A	24.14

The new SR14A, E1A, and E2A Build Alternatives alignments vary from the initial Build Alternative alignments for each associated corridor only within the Central Subsection of the Palmdale to Burbank Project Section. The six Build Alternatives share the same alignments and footprints within the Palmdale and the Burbank Subsections.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: HSR Authority, 05/2020. Basemap Source: National Geographic, 2016

May 28, 2020

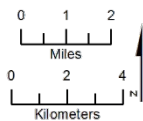
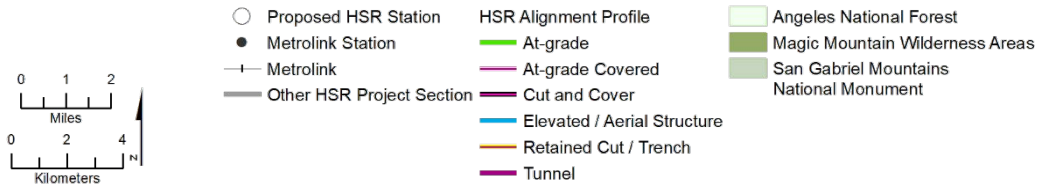


Figure 2-1 Palmdale to Burbank Build Alternatives

2.1.1 E1A Build Alternative

As noted above, the alignment for E1A Build Alternative would be identical to the other Build Alternatives within the Palmdale Subsection.

In the Central Subsection, the E1A Build Alternative alignment would diverge from the E1 Build Alternative south of Avenue R, continuing south of Spruce Court at grade, curving eastward and traversing south approximately 300 feet east of Una Lake. South of Una Lake, the E1A Build Alternative alignment would curve westward, cross over the SCRRRA Antelope Valley Line, Sierra Highway and the Soledad Siphon, and continue southwest and enter a tunnel portal approximately 1,900 feet northeast of the Sierra Highway/Pearblossom Highway intersection. After proceeding underground for approximately 1.5 miles, the E1A Build Alternative alignment would transition to an at-grade profile approximately 350 feet south of Vincent View Road. Just south of Foreston Dr, the E1A Build Alternative alignment would converge with the E1 Build Alternative alignment. The remaining E1A Build Alternative alignment south of Foreston Dr, under the ANF including SGMNM, and into the San Fernando Valley would be identical to the E1 Build Alternative alignment.

Within the Burbank Subsection, the six Build Alternatives would be identical, including alignment and other facilities.

2.1.2 E2A Build Alternative

Within the Palmdale Subsection, the alignment for E2A Build Alternative would be identical to the other Build Alternatives.

In the Central Subsection, the E2A Build Alternative alignment would follow an identical route to the E1A Build Alternative to Foreston Dr, where it would rejoin with the E2 Build Alternative Alignment. The remaining E2A Build Alternative alignment south of Vincent View Road, under the ANF, including SGMNM, and into the San Fernando Valley would be identical to the E2 Build Alternative alignment.

Within the Burbank Subsection, the E2A Build Alternative would be identical to the other Build Alternatives, including alignment and other facilities.

3 PURPOSE AND SCOPE

This report identifies the impacts to existing utilities from the proposed HSR alignment and improvements associated with the project. The preliminary investigation would identify High Risk and Major utilities affected by the proposed HSR track corridor, HSR station and systems facilities, upgraded UPRR and Metrolink facilities, bridge structures overcrossings, roadway grade changes and alignments, and drainage. This report focuses on the High Risk and Major Utilities that present the most significant impacts to the proposed E1A/E2A alignment.

The Authority's definitions of High and Low Risk utilities were used in this assessment (per TM 2.7.4).

High Risk Utilities are defined as existing facilities transporting the following materials, whether or not they are encased:

- Petroleum Products (jet fuel, crude oil, gas oil, gasoline, etc.)
- Oxygen
- Chlorine
- Toxic or flammable gases or liquids
- Natural gas pipelines of any size
- Underground electric supply lines that conduct greater than 300 volts (without effectively grounded metal sheaths)
- Water in pressured pipeline

Other High Risk Utilities that could Disrupt the Operation of CHSTP:

- Sanitary Sewer in pressured pipeline
- Storm Drain in pressured pipeline.

Low Risk Utilities include:

- Sanitary Sewer gravity pipelines
- Storm Drain gravity pipelines
- Fiber Optics communication lines
- Telecommunications lines

Major Utilities are defined as subsurface, above ground or overhead facilities used for transmission (or subtransmission) regardless of size, shape or method of conveyance. These would include:

- Overhead and subsurface power transmission lines, 50 kV or greater
- Fiber Optic/Telecommunications transmission lines
- Sanitary Sewer trunk lines, 12-inch diameter or greater
- (Storm Drains are not included in this report; see the Hydrology and Hydraulics Report Alignment E1A/E2A PEPD Addendum Record Set, August 2020).
- Minor Utilities are defined as any subsurface, above ground, or overhead facility used as distribution lines, or as service laterals to individual parcels or properties.

Not every utility type or size listed above exists in this subsection of the project.

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4 UTILITY INFORMATION COLLECTION

This section discusses the data collection efforts to map existing facilities and to identify the impacted facilities along the proposed E1A/E2A Build Alternative.

4.1 Data Sources

The design team reached out to both public and private utility owners whose facilities would be affected by the proposed footprint of the three HSR Build Alternatives. The first solicitation effort to acquire as-built and utility service maps was to send letters, with exhibits depicting the proposed alignments, to utility owners within the project footprint. The next course of action was to follow up with emails and phone calls if the utility owner was not responsive. A utility owner contact log has been established as a living document to record the due diligence taken during information gathering stage of this study (See Appendix C).

In addition, utility record drawings and as-built information would be collected from various sources including public agencies (navigatela.lacity.org), third-party drawings and respective stakeholders. Site visualization and Google Earth map were also used to identify and/or confirm various above ground and aerial facilities.

4.2 Utility Owners – As-Built Drawings and Service Maps

Existing utility record maps and as-built drawings can vary in accuracy, depending upon the time and method of preparation.

Ideally, we would have received as-built engineering drawings and electronic maps in GIS, MicroStation, or AutoCAD from utility owners. Unfortunately, this was rarely the case. We received information in a variety of formats, with varying levels of detail. Formats received from utility owners included:

- As-built engineering drawings (hard copy, pdf)
- Service maps (GIS, MicroStation, AutoCAD)
- Facility maps (hard copy, pdf)
- Various forms of vague mapping with little to no detail (various)

From each owner who couldn't provide as-built drawings, we attempted to collect some form of mapping that showed the location of each pipe or conduit in relation to the street centerline, pipe size, and material.

4.3 Web-based Geographic Information Systems

The City of Palmdale's online GIS verifies the water utility service zoning within Palmdale. The primary water service providers are the Palmdale Water Department and Los Angeles County Waterworks Department. However, this GIS information does not specify where the pipes are relative to the street centerlines.

Los Angeles County Flood Control District's (LACFCD) GIS data shows existing storm drains without specifying distance from the street centerline. For known owners, the GIS provides a link to the as-built. In Palmdale, only sizes are shown and the owners are listed as unknown.

SCE's Distributed Energy Resource Interconnection Map (DERiM) shows its transmission and sub transmission line, distribution and subtransmission substations within the map. Information provided includes voltage rating, circuit name, substation, and system.

4.4 Google Map Overlays

SoCal Gas's website uses an overlay of the gas transmission and distribution line within Google Maps. It shows approximation of its utility alignment and no information of its pipe sizes.

The Center for Land Use Interpretation displays in three part web resources for LADWP facility information and location that overlay google maps within its website. Part 1 shows locations and brief information about LADWP source of power. Part 2 shows locations and brief information about receiving stations, converter stations, switching stations, and other control facilities. Part 3 shows location and brief information about LADWP local distribution stations within their network.

4.5 Google Map Street View

This method was used to verify above ground structures such as utility poles, above ground vaults and utility cabinets, maintenance holes for sanitary sewers and storm drains, and standpipes for water valves.

5 UTILITY IMPACTS

Utility impacts along the E1A/E2A Build Alternative are grouped into two risk categories, and two significant scale categories:

- High Risk Utilities
- Low Risk Utilities
- Major Utilities
- Minor Utilities

This report focuses on the evaluation of impacted High Risk and Major Utilities along the E1A/E2A Build Alternative.

5.1 Significant Impacts

High Risk and Major Utilities as listed above that may impact the operations are defined as “Significant Impacts”. High Risk utilities identified in this rail alignment of the project include natural gas lines and pressurized water lines. “Major” refers to Low Risk Utilities that are also critical in transmission of services. Major utilities identified in this subsection of the project include gravity sanitary sewer trunk lines and overhead power transmission lines.

Reference Table 5-1 for the total count of “Significant Impacts.” For more detailed information, see the utility logs in Appendix B.

Table 5-1 Significant Utility Impacts

	E1A/E2A
All High Risk	43
Major Low Risk	19
TOTAL	62

5.2 High Risk

High Risk utilities are defined as petroleum products, oxygen, chlorine, toxic or flammable gases or liquids, all sizes of natural gas pipelines, underground power supplies, pressurized water pipelines, and pressurized sewers. For the list of high-risk utilities within the footprint, see Appendix B. Ongoing updates to the utility composite sheet would reflect updates to this report.

5.2.1 Petroleum Products (Oil, Gasoline, Crude)

The portion of the SR14A Build Alternative analyzed will not impact any petroleum lines.

5.2.2 Natural Gas

Utility maps in the Palmdale indicates a notable impacted of the two 30-inch transmission natural gas lines along Ease Avenue S. The Southern California Gas Company owns these pipelines.

Reference Table 5-2 for the total count of impacted natural gas lines. Refer to Appendix B for more detailed information.

Table 5-2 Natural Gas Impacts

	E1A/E2A
Natural Gas	5

5.2.3 Water Utilities

Several waterlines would be impacted by the footprint of the proposed HSR alignment, and the associated roadway network realignments. The owners of the impacted facilities include Palmdale Water District, Los Angeles County Waterworks District 40 – Region 34 and District 37 and Antelope Valley – East Kern County Water Agency (AVEK). Both transmission and distribution lines are included because water is defined as high risk, therefore, water pipes are considered to have significant impacts. Utility sizes vary from 8-inch to 48-inch diameter.

Reference Table 5-3 for the total count of impacted water lines. For more detailed information, see the utility logs in Appendix B.

Table 5-3 Water Line Impacts

	E1A/E2A
Water Lines	38

5.2.4 Underground Power Utilities

Impacted underground power utilities were not identified within our Project Area.

5.3 Major Utilities

Based on the utility research conducted, two types of major utilities were identified along the E1A/E2A Build Alternative: overhead power and trunk sanitary sewers.

5.3.1 Overhead Power Facilities

The existing overhead power transmission/sub-transmission lines crossing the proposed HSR alignment and road realignments have been identified as having impacts by the project. These overhead lines are between 12kV and 500kV facilities that belong to SCE.

Table 5-4 depicts the total count of impacted power transmissions. For more detail information, see the utility logs in Appendix B.

Table 5-4 Overhead Power Line Impacts

	E1A/E2A
Power OH Lines	14

5.3.2 Sanitary Sewer Transmission and Collection Lines

Similarly, several sanitary sewers would be impacted by the footprint of the proposed E1A/E2A alignment, the associated roadway network realignments, and differential grading. These trunk sewers, 12-inch diameter and greater, are owned and operated by the City of Palmdale Sanitary Maintenance District and Los Angeles County Sanitary District.

Reference Table 5-5 for total count of impacted major sewer lines. For more detail information, see the utility logs in Appendix B.

Table 5-5 Sanitary Line Impacts

	E1A/E2A
San Sewer Lines	5

5.4 Other Significant Utility Related Facilities

Based on the utility research conducted, facilities crucial for the operation of the city’s infrastructure would be affected by the proposed HSR construction. These facilities are power receiving station, potable water trunk line feeder and control structure, and wholesale water supply connection. The impacted facilities are recommended for an advance relocation to continue uninterrupted services to the city.

5.4.1 SCG Control Structure

The proposed HSR alignment would partially impact the existing SCG Control Structure 550 feet east of East Avenue S and East 10 Street intersection in Palmdale. The proposed East Avenue S realignment swerves north offset to the existing East Avenue S between East 5th Street and Windy Creek Street. The proposed northerly edge of sidewalk encroaches up to 25 feet from SCG’s existing property line with impacts to SCG’s control station appurtenances.

5.4.2 Palmdale Ditch Enclosure

The proposed HSR alignment would not affect the existing Palmdale Water District Ditch Enclosure. The 48-inch RCP ditch enclosure conveys water shed run-off from Little Rock Reservoir to Lake Palmdale.

5.5 Permitting

Impacted utilities would be relocated within the project footprint, as indicated in the Composite Utility Plans package. Based on the Authority’s investigation with various agencies, for moving the project forward to the construction, various utility agency permits or approvals shall be required. Completion of permit applications shall be part of a subsequent design phase. Table 5-6 summarizes some of the major agency’s permits or approvals required.

Table 5-6 Permits or Approvals for E1A/E2A Build Alternative

Agency	Permits and Approval	Comments
Authority	Refer to Caltrans Encroachment Permits (Form TR-0100): 1.Encroachment Permit Fee Calculation Sheet 2. Fee Schedule for type of encroachment and access. 3.Encroachment Permit Check List	
SCRRRA (Metrolink)	1.Written Statement of reasoning, location and duration for Encroachment 2.Application for Encroachment Permits 3. Plan and Profile drawings 4.Schedule 5.Existing License Agreement	
City of Palmdale	Encroachment Permits W/Traffic Control Plan (To Building and Safety)	
Private Parcel (within Palmdale)	Easement Agreement (To City of Palmdale Engineering)	
Los Angeles County Public Works (Land Development Division)	Pre-Application with 4 set of plans	Unincorporated Areas within Los Angeles County.

Agency	Permits and Approval	Comments
CALTRANS	Encroachment Permits (refer to CALTRANS utility permit Codes)	

5.6 Operation and Maintenance

The facility relocation concept has been incorporated with the consideration to maintain undisrupted operation to the Authority and its ancillaries. In order to provide a safe environment for operation of the HSR project, minimize the disruption to the traveling public, and assure safety of Authority personnel and patrons during its operations, proposed utility maintenance access, vault, and appurtenances shall be located outside of the Authority's right of way.

6 REFERENCES

The Center for Land Use Interpretation Website: <http://www.clui.org/section/ladwp-power>

CHSTP In-Progress Draft Technical Memorandum Designer's Responsibilities and Utility Requirements for 15% Design Level TM 2.7.4, November 20, 2008.

State of California Public Utilities Commission, General Order No. 95 (Overhead Electric Line Construction):

<http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M146/K646/146646565.pdf>, January 2015.

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Appendix A: Utility Contact Information

E1A/E2A Alignment– Utility Contact Information

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
1	SENER	Los Angeles Department of Water and Power (LADWP)	Charles Dunn	Engineer of Underground Structures Group	111 N. Hope Street, Room 1031	Los Angeles, CA 90012	(213) 367-2715	Charles.Dunn@LADWP.Com
2	SENER	Los Angeles Department of Public Works (LADPW)	Daryll Chenoweth	Utility Coordination Unit, Head	900 S. Fremont Ave	Alhambra, CA 91803	(626) 458-3109	dchenowe@dpw.lacounty.gov
3	SENER	City of Palmdale	Jim Deyo	Department of Public Works	38250 Sierra Hwy	Palmdale, CA 93550	(661) 267-5347	jdeyo@cityofpalmdale.org
4	SENER	Palmdale Water District	Mike West	Engineering Design Technician	2029 E Avenue Q	Palmdale, CA 93550	(661)-947-1022	mwest@paldalewater.org
5	SENER	Southern California Gas (SCG) - Transmission	Chris Coria Estafania Sanchez Rosalyn Squires Carlos Gaeta		9400 Oakdale Ave	Chatsworth, CA 91311	818-701-3253 (Chris Coria) (818) 701-6679 (818) 701-3474 (Carlos)	Ccoria@semprautilities.com cagaeta@semprautilities.com rsquires@semprautilities.com
6	SENER	AT&T Distribution	Mary Ramos		600 East Green St	Pasadena, CA 91101	(510) 645-2929	ma2797@att.com
7	SENER	AT&T Transmission (Telephone)	Joseph Forkert Walter Westriuk		22311 Brookhurst St, Suite 203	Huntington Beach, CA 92646	(714) 963-7964	joef@forkertengineering.com
8	SENER	AT&T Transmission	Maria Guzman		420 S Grand Ave, RM 707	Los Angeles, CA 90071	(213) 787-9996	mg1371@att.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
9	SENER	Time Warner Cable (Charter)	Dave Bell		3041 E. Mira Loma Ave	Anaheim, CA 92806	(714) 591-4878	dave.bell@charter.com
10	SENER	Time Warner Cable (Telephone)	Dianell Caamano		41551 10th St West	Palmdale, CA 93551	(661) 259-6909	dianell.caamano@twcable.com
11	SENER	State of California, Department of Water Resources	Jaime Desantiago	Project Engineer	P.O. Box 1187	Pearblossom, CA 93553	(661) 994-8574	jdes@water.ca.gov
12	SENER	Los Angeles County Sanitary District (LACSD)	Koesen Lipock	Engineer	1955 Workman Mill Road	Whittier, CA 90601	(562) 908-4288	Klipock@lacsdsd.org
13	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	Sam Queszada	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-5100	squeszada@dpw.lacounty.gov
14	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	Hank Fung	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-3980	hfung@dpw.lacounty.gov
15	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	Jeff Chow	Engineer	1000 S Fremont Ave	Alhambra, CA 91803	(626) 300-4753	jchow@dpw.lacounty.gov
16	SENER	Los Angeles County Water Works	Jason Kitto	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 300-3337	jkitto@dpw.lacounty.gov
17	SENER	Newhall County Water	Josh Jenkins	Engineer	PO Box 220970	Newhall, CA 91322	(661) 259-3610	jjenkins@ncwd.org
18	SENER	Air Touch Cellular (Telephone)	Matthew Kang	Engineer	10640 Sepulveda Blvd, Ste 1	Mission Hills, CA 91345	(818) 898-2352	matthew.kang@cableeng.com
19	SENER	Metropolitan Water District	Shoreh Zareh	Engineer	700 N Alameda St	Los Angeles, CA 90012	(213) 217-7474	szareh@mwdh20.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
20	SENER	Plains All American Pipeline (Oil)	Becky Sitton	Engineer	5900 Cherry Ave	Long Beach, CA 90805	(562) 728-2817	bsitton@paalp.com
21	SENER	T-Mobile (Telephone)	Gregg Lake	Engineer	7543 Woodley Ave, Suite 201	Van Nuys, CA 91406	(818) 840-0808	glake@synergy.cc
22	SENER	XO Communications (Telephone) - Los Angeles	Matt Bergine	Engineer	1924 Deere Ave	Santa Ana, CA 92705	(949) 417-7841	matt.bergine@xo.com
23	SENER	Southern California Gas (SCG) - Distribution	Timothy Bruce	Engineer	9400 Oakdale Ave,	Chatsworth, CA 91311.	(818) 701-3335	tbruce@semprautilities.com
24	SENER	Level 3 Communications (Telephone)	Felix Vigil		818 W 7th St, Suite 700	Los Angeles, CA 90017	(213) 929-2126	felix.vigil@level3.com
25	SENER	Southern California Edison (SCE) - Overhead Power Transmission	Kim Gurule		14799 Chestnut St	Westminster, CA 92683	(714) 796-9932	maprequests@sce.com
26	SENER	Southern California Edison (SCE) - Telecom	Tommy Savage		501 S Marengo Ave	Alhambra, CA 91802	(626) 308-6186	tommy.savage@sce.com

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Appendix B: High Risk and Major Utility Information Log

E1A/E2A Alignment – Utility Information Log – (High Risk & Major Utility)

No.	Region	Owner	HSR Alignment	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
1	SENER	AT&T	E1AE2A	UT-C4001-EA UT-C4002-EA	263+70 to 283+00		FIBER OPTICS	4-1.5"		1300'		PROTECT IN PLACE
2	SENER	PALMDAL E WD	E1AE2A	UT-C4001-EA UT-C4017-EA UT-C4016-EA	265+57	Avenue R	WATER	12" H SL	PSI	2844'		TO BE RELOCATED
3	SENER	CITY OF PALMDAL E	E1AE2A	UT-C4001-EA UT-C4017-EA UT-C4016-EA	263+72	Avenue R	SEWER	8"		2095'		TO BE RELOCATED
4	SENER	AT&T	E1AE2A	UT-C4001-EA	266+00	Avenue R	FIBER OPTICS	4-1.5"		985'		TO BE RELOCATED
5	SENER	PALMDAL E WD	E1AE2A	UT-C4001-EA	263+27	Avenue R	WATER	12"	PSI	42'		PROTECT IN PLACE
6	SENER	CITY OF PALMDAL E	E1AE2A	UT-C4001-EA	263+70 to 270+00		SEWER	8" VCP		600'		TO BE RELOCATED
7	SENER	SCE	E1AE2A	UT-C4001-EA UT-C4017-EA	265+57	Avenue R	OH POWER	69 KV	KV	3225'		TO BE RELOCATED
15	SENER	PALMDAL E WD	E1AE2A	UT-C4002-EA	290+50 to 295+00		WATER	18" STL	PSI	469'		PROTECT IN PLACE
16	SENER	PALMDAL E WD	E1AE2A	UT-C4002-EA	291+00 to 295+00		WATER	16" STL	PSI	361'		PROTECT IN PLACE
17	SENER	CITY OF PALMDAL E	E1AE2A	UT-C4002-EA	270+00 to 275+00	6th St East	SEWER	8" VCP		500'		TO BE RELOCATED

No.	Region	Owner	HSR Alignment	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
18	SENER	PALMDAL E WD	E1AE2A	UT-C4002-EA	270+00 to 276+00	6th St East	WATER	12" DIP	PSI	600'		TO BE RELOCATED
19	SENER	PALMDAL E WD	E1AE2A	UT-C4002-EA	290+50	Ave R Eight	WATER	12" STL	PSI	602'		TO BE RELOCATED
20	SENER	PALMDAL E WD	E1AE2A	UT-C4002-EA UT-C4003-EA	291+00 to 296+80		WATER	8"	PSI	535'		REMOVE - ABANDONED
21	SENER	SPRINT	E1AE2A	UT-C4002-EA UT-C4003-EA UT-C4004-EA	284+40 to 323+00		FIBER OPTICS	UNKN OWN		4045'		TO BE RELOCATED
22	SENER	PALMDAL E WD	E1AE2A	UT-C4003-EA	299+00 to 318+50		WATER	16"		1982'		TO BE RELOCATE
23	SENER	SCG	E1AE2A	UT-C4003-EA UT-C4018-EA	318+75	Avenue S	GAS	4"		1395'		TO BE RELOCATED
25	SENER	PALMDAL E WD	E1AE2A	UT-C4003-EA	299+00 to 318+50		WATER	18"	PSI	1972'		TO BE RELOCATE
27	SENER	PALMDAL E WD	E1AE2A	UT-C4003-EA	298+00 to 318+00		WATER	8"	PSI	1959'		REMOVE - ABANDONED
28	SENER	PALMDAL E WD	E1AE2A	UT-C4003-EA	318+75	Avenue S	WATER	42"	PSI	312'		TO BE RELOCATED
29	SENER	PALMDAL E WD	E1AE2A	UT-C4003-EA UT-C4018-EA UT-C4054-EA	318+75	Avenue S	WATER	12"	PSI	2128'		TO BE RELOCATED
30	SENER	SCG	E1AE2A	UT-C4003-EA UT-C4004-EA	318+75	Sierra Hwy	GAS	4"		474'		REMOVE

No.	Region	Owner	HSR Alignment	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
31	SENER	AT&T	E1AE2A	UT-C4003-EA UT-C4018-EA UT-C4054-EA	318+75	Avenue S	TELEPHONE	UNKNO WN		3188'		TO BE RELOCATED
32	SENER	SCG	E1AE2A	UT-C4003-EA UT-C4018-EA UT-C4019-EA	318+75	Avenue S	GAS	30"		3991'		TO BE RELOCATED
33	SENER	PALMDAL E WD	E1AE2A	UT-C4003-EA	314+00 to 318+50		WATER	48"	PSI	353'		TO BE RELOCATED
34	SENER	PALMDAL E WD	E1AE2A	UT-C4003-EA	314+00 to 318+50		WATER	30"	PSI	307'		TO BE RELOCATED
35	SENER	PALMDAL E WD	E1AE2A	UT-C4003-EA	314+00 to 318+50		WATER	36"	PSI	259'		TO BE RELOCATED
36	SENER	SCE	E1AE2A	UT-C4003-EA UT-C4018-EA	318+75	Avenue S	OH POWER	UNKNO WN		2423'		TO BE RELOCATED
38	SENER	PALMDAL E WD	E1AE2A	UT-C4018-EA	318+75	Avenue S	WATER	24"	PSI	916'		TO BE RELOCATED
41	SENER	PALMDAL E WD	E1AE2A	UT-C4018-EA	318+75	Avenue S	WATER	20"	PSI	304'		TO BE RELOCATED
43	SENER	PALMDAL E WD	E1AE2A	UT-C4018-EA	318+75	Avenue S	WATER	8"	PSI	642'		PROTECT IN PLACE
45	SENER	PALMDAL E WD	E1AE2A	UT-C4018-EA	318+75	Avenue S	WATER	20"	PSI	893'		TO BE RELOCATED
46	SENER	PALMDAL E WD	E1AE2A	UT-C4018-EA	318+75	Avenue S	WATER	8"	PSI	33'		REMOVE
47	SENER	PALMDAL E WD	E1AE2A	UT-C4018-EA	318+75	Avenue S	WATER	8"	PSI	303'		REMOVE

No.	Region	Owner	HSR Alignment	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
48	SENER	LACSD	E1AE2A	UT-C4019-EA	305+00 317+00	E Ave 10th	SEWER	10"		1165'		TO BE RELOCATED
49	SENER	SCG	E1AE2A	UT-C4019-EA	305+00 317+00	E Ave 10th	GAS	4"		1510'		TO BE RELOCATED
50	SENER	SCG	E1AE2A	UT-C4019-EA	305+00 317+00	E Ave 10th	GAS	10"		1580'		TO BE RELOCATED
52	SENER	PALMDAL E WD	E1AE2A	UT-C4019-EA	318+75	E Ave 10th	WATER	12"	PSI	1708'		TO BE RELOCATED
53	SENER	PALMDAL E WD	E1AE2A	UT-C4019-EA	318+75	Avenue S	WATER	24"	PSI	1355		TO BE RELOCATED
54	SENER	PALMDAL E WD	E1AE2A	UT-C4019-EA	318+75	E Ave 10th	WATER	24"	PSI	1872'		TO BE RELOCATED
56	SENER	AT&T	E1AE2A	UT-C4019-EA	318+75	E Ave 10th	TELEPHO NE	UNKNO WN		1350'		TO BE RELOCATED
57	SENER	PALMDAL E WD	E1AE2A	UT-C4019-EA	318+75	Avenue S	WATER	16"	PSI	1104		TO BE RELOCATED
58	SENER	AT&T	E1AE2A	UT-C4019-EA	305+00 to 317+00	E Ave 10th	TELEPHO NE	UNKNO WN		1379		TO BE RELOCATED
59	SENER	CITY OF PALMDAL E	E1AE2A	UT-C4019-EA	318+75	Avenue S	SEWER	8"		932		PROTECT IN PLACE
61	SENER	PALMDAL E WD	E1AE2A	UT-C4004-EA	324+50 to 328+50	Valley Forge	WATER	UNKNO WN	PSI	389		TO BE RELOCATED
62	SENER	PALMDAL E WD	E1AE2A	UT-C4004-EA	318+00 to 323+50	Sierra Hwy	WATER	24"	PSI	578		TO BE RELOCATED

No.	Region	Owner	HSR Alignment	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
63	SENER	PALMDAL E WD	E1AE2A	UT-C4004-EA	318+00 to 323+50	Sierra Hwy	WATER	6"	PSI	445		TO BE RELOCATED
66	SENER	AT&T	E1AE2A	UT-C4004-EA		Sierra Hwy	TELEPHONE	UNKNO WN		933		TO BE RELOCATED
67	SENER	PALMDAL E WD	E1AE2A	UT-C4007-EA	405+00 to 411+00	Sierra Hwy	WATER	20"	PSI	650'		PROTECT IN PLACE
68	SENER	PALMDAL E WD	E1AE2A	UT-C4007-EA	405+00 to 409+50	Sierra Hwy	WATER	20"	PSI	550'		PROTECT IN PLACE
69	SENER	U.S. SPRINT	E1AE2A	UT-C4007-EA	404+00 to 411+00	Sierra Hwy	FIBER OPTIC	4"		680'		PROTECT IN PLACE
70	SENER	AT&T	E1AE2A	UT-C4007-EA	405+10 to 411+50	Sierra Hwy	TELEPHONE	UNKNO WN		1000'		PROTECT IN PLACE
71	SENER	SCE	E1AE2A	UT-C4007-EA	405+70 to 411+16	Sierra Hwy	OH POWER	12 KV		650'		RELOCATE
72	SENER	PALMDAL E WD	E1AE2A	UT-C4007-EA	404+36	Sierra Hwy	WATER	8"	PSI	395'		PROTECT IN PLACE
73	SENER	PALMDAL E WD	E1AE2A	UT-C4007-EA	404+69	Sierra Hwy	WATER	8"	PSI	396'		PROTECT IN PLACE
74	SENER	PALMDAL E WD	E1AE2A	UT-C4007-EA	402+77	Sierra Hwy	SD	8"		208'		PROTECT IN PLACE
75	SENER	PALMDAL E WD	E1AE2A	UT-C4007-EA	410+50	Sierra Hwy	WATER	20"	PSI	335'		RELOCATE
76	SENER	PALMDAL E WD	E1AE2A	UT-C4007-EA	410+70	Sierra Hwy	WATER	20"	PSI	275'		RELOCATE

No.	Region	Owner	HSR Alignment	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
77	SENER	PALMDAL EWD	E1AE2A	UT-C4007-EA	410+80	Sierra Hwy	WATER	20"	PSI	275'		RELOCATE
78	SENER	SCE	E1AE2A	UT-C4007-EA	405+23	Sierra Hwy	OH POWER	12 KV	KV	280'		PROTECT IN PLACE
79	SENER	AVEK	E1AE2A	UT-C4010-EA	479+00	Sierra Hwy	WATER	20"	PSI	300'		PROTECT IN PLACE
80	SENER	UNKNOWN	E1AE2A	UT-C4010-EA	479+00	Sierra Hwy	FIBER OPTIC	UNKNO WN		300'		PROTECT IN PLACE
81	SENER	SCE	E1AE2A	UT-C4010-EA	477+30	Sierra Hwy	OH POWER	12 KV	KV	320'		PROTECT IN PLACE
82	SENER	LACPDW	E1AE2A	UT-C4012-EA UT-C4013-EA	543+50 to 546+25	W Carson Mesa Rd	WATER	20"	PSI	371'		RELOCATE
83	SENER	SCE	E1AE2A	UT-C4012-EA	534+00 to 545+00	Angeles Forest Hwy	OH POWER	12 KV	KV	1200'		PROTECT IN PLACE
84	SENER	SCE	E1AE2A	UT-C4012-EA	525+05	Angeles Forest Hwy	OH POWER	500 KV	KV	350'		PROTECT IN PLACE
85	SENER	SCE	E1AE2A	UT-C4012-EA	526+40	Angeles Forest Hwy	OH POWER	500 KV	KV	350'		PROTECT IN PLACE
86	SENER	SCE	E1AE2A	UT-C4013-EA	568+20/ 569+00/ 570+00	W Carson Mesa Rd	OH POWER	(3) 230 KV	KV	1600"		PROTECT IN PLACE
87	SENER	AUTHORITY	E1AE2A	UT-C4013-EA UT-C4014-EA UT-C4015-EA UT-C4021-EA	545+00 to 595+00	W Carson Mesa Rd	TP POWER	230 KV	KV	5301'		PROPOSED

No.	Region	Owner	HSR Alignment	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
89	SENER	SCE	E1AE2A	UT-C4014-EA	570+00 to 575+00 and 583+50	W Carson Mesa Rd and Rockyford Rd	OH POWER	(2) 230 KV	KV	1400'		PROTECT IN PLACE
90	SENER	SCE	E1AE2A	UT-C4014-EA	572+00 to 575+00	W Carson Mesa Rd	OH POWER	(2) 500 KV	KV	1400'		PROTECT IN PLACE
93	SENER	AVEK	E1AE2A	UT-C4020-EA	446+00 to 477+50	Sierra Hwy	WATER	20"	PSI	115'		PROTECT IN PLACE
94	SENER	SCE	E1AE2A	UT-C4021-EA	570+00 to 595+00	Rockyford Rd	OH POWER	230 KV	KV	100'		PROTECT IN PLACE
95	SENER	SCE	E1AE2A	UT-C4021-EA	570+00 to 595+01	Angeles Forest Hwy/ Foreston Dr	OH POWER	(2) 500 KV	KV	240'		PROTECT IN PLACE
96	SENER	SCE	E1AE2A	UT-C4021-EA	570+00 to 595+02	Angeles Forest Hwy/ Foreston Dr	OH POWER	(3) 12 KV	KV	300'		PROTECT IN PLACE

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Appendix C: Utility Owner Contact Log

E1A/E2A Alignment – Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
1	SENER	Level 3 Communications (Telephone)	2015-12-17 To 2016-08-25	918-547-0007 (213) 929-2126 felix.vigil@level3.com (949) 672-0403 gerardo.issasi@level3.com (949) 275-1419	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-17: Email sent to Gerry Issasi with attached letter and maps</p> <p>2015-12-30: Updated correction to telephone no.</p> <p>2016-01-14: Confirmed with Gerry that Felix is the point of contact for LA; Called Felix; no response; sent email to follow up</p> <p>2016-01-15: Confirmed with Felix he is the point of contact for LA area; emailed him TG grid pages with markups</p> <p>2016-02-17: Received some snapshots of their facilities in the project research area. Will received more detailed plans by the end of the week</p> <p>2016-6-24: resent letter by email + Google Earth file, also requested further details to previous response</p> <p>2016-8-2: CN resent letter again by email + Google Earth + GIS, also left voicemail</p> <p>2016-8-3: Caleb King emailed, they will respond by 9/9</p> <p>2016-8-10: Caleb verified by email that he is responsible for all of California.</p> <p>2016-8-19: CN sent maps previously received to Caleb to ask for clarification and drawings.</p> <p>2016-8-24: CN emailed Caleb to request phone number, his sig file shows Oklahoma address, no number.</p> <p>2016-8-25: Caleb responded with phone number, requested Google Maps image of research area, offered to look into it himself. CN emailed Google Earth file + jpg maps Level 3 sent previously.</p>

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2	SENER	Time Warner Cable (Charter)	2016-01-07 To 2016-08-24	john.jacinto@charter.com (714) 591-4878 (Dave's new #) O: (310) 647-5167 C: (714) 920-6026 west-engineering-relo@twcable.com dave.bell@charter.com	TAGC/Ray Wang HDR/Cherie Nixon	HDR to review maps; need to request maps 1&2 larger size 2016-01-07: Requested larger maps since they are not legible; waiting for response 2016-01-20: Called Dave Bell; would like us to email him of our concerns and he will forward the email/follow up with the group; Sent email to follow up 2016-01-26: Received new maps; still not legible 2016-02-22: Bell emailed us to let HDR know he has been passing the information along to the group to respond back with legible maps. 2016-03-21: received email w vague but legible pdf maps (via Roberto Rodriguez). 2016-5-6: rec'd email w vague pdf map (from westengrelo via Roberto Rodriguez) 2016-8-10: CN emailed westengrelo to request drawings that show distance to street CL. 2016-8-11: westengrelo emailed that they don't have drawings showing distance to CL. 2016-8-16: CN emailed Dave Bell to ask if there's a way to obtain drawings that show distance to CL. (Auto-response shows Dave's new Charter email after merger.) 2016-8-17: Dave suggested contacting John Jacinto at Charter, as well as westengrelo. 2016-8-23: CN emailed letter + Google Earth + GIS to John requesting detailed drawings. 2016-8-24: John ("JJ") replied to say he would look into it to see what they can provide.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
3		Newhall County Water	5/2/2016	(661) 259-3610 jjenkins@ncwd.org	TAGC/Ray Wang HDR/Cherie Nixon	5/2 - rec'd CAD + pdf files fr Danielle Burleson Drawings don't show distance from CL - check CAD drawings. TAG to verify that CAD locations are correct (contact NCWD).
4	SENER	Southern California Edison (SCE) Overhead Power Transmission	2015-12-30 To 2016-09-20	(714) 796-9932 maprequests@sce.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2015-12-31: Emailed to respond request was received; currently in progress 2016-01-05; SCE would like a shape file for the project research area 2016-01-13: HDR sent SCE .dgn & .kmz file of the research area 2016-01-20: SCE sent non-disclosure agreement 2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements. 2016-8-5: Dennis called CN, he is checking if we already have NDA with them. 2016-8-18: Dennis emailed to let us know we do have an NDA with them. CN emailed Kim with 4/20 letter + Google Earth + GIS files requesting as-builts. 2016-8-19: Kim emailed to ask if the NDA was project specific, CN responded to say yes. 2016-8-24: Kim emailed to ask about the NDA (under HDR?), CN responded that it could be the CHSRA, Rail Delivery Partner, Cordoba Corporation, or Parsons Brinkerhoff. Kim also sent an invoice for \$81.30, CN forwarded to TAG to request payment. 2016-8-25: CN called Kim, invoice for a diff HDR project. Kim can't find NDA, explained their rules. CN emailed Dennis Kim requesting copy of NDA. Dennis said he will email it tomorrow morning.

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						<p>2016-8-25: CN emailed Google Earth file + alignment exhibit to Kim as requested. CN emailed RDP Dennis Kim to request NDA.</p> <p>2016-8-26: Dennis Kim sent NDA.</p> <p>2016-8-30: CN emailed NDA to Kim, Kim said they can't accept it. CN emailed Joe McNeely to request that HDR sign its own NDA.</p> <p>2016-9-6: Joe requested resolution fr RDP, Rick Simon said CN to contact Dennis Kim at RDP.</p> <p>2016-9-9: CN emailed Dennis Kim to request that HDR sign NDA directly with SCE.</p> <p>2016-9-20: CN called Dennis Kim to follow up. He will discuss it with the CHSRA lawyer and get back to CN.</p>
5	SENER	SCE - Telecom	2016-04-23 To 2016-08-24	(626) 308-6186	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-4-23: Letter received by SCE Telecom.</p> <p>2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements.</p> <p>2016-8-5: Dennis called CN, he is checking if we already have NDA with them.</p> <p>2016-8-8: Dennis emailed to let us know we do have an NDA with them. CN to follow up after NDA found.</p> <p>2016-8-24: CN called number for Tommy Savage, voicemail to someone else's name. Requested Tommy's number.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
6	SENER	ATT - Distribution	2016-01-04 To 2016-09-01	(510) 645-2929 (Mary) ma2797@att.com (626) 817-4235 (Kathy) PM1736@att.com (626) 817-4289 (Cathy) al6941@att.com (626) 390-342	TAGC/Ray Wang HDR/Cherie Nixon	<p>Would like a list of TG map grids</p> <p>2016-01-04: Emailed a list of TG grids; waiting for response</p> <p>2016-01-26: Called; no response</p> <p>2016-02-10: ATT emailed back to ask more questions about billing for the map request and for more detail of project location; HDR response is to send TG maps; ATT called and state TG pages are too vague and need the exact street crossings</p> <p>2016-02-15: HDR asked the pricing per grid or intersection</p> <p>2016-03-02: HDR responded by sending .kmz file for clarity and described the research location in email</p> <p>2016-03-03 more calls & email clarification w Mary Ramos & Kathy Montoya, requested fee estimate</p> <p>2016-03-04 Mary Ramos emailed fee invoice, \$501.40</p> <p>2016-4-28: Mary Ramos called, need specific streets & intersections, and payment for previous request</p> <p>TAG to pay \$501.40 fee, Cherie to clarify remaining info with Mary Ramos. (CN gathering info for Mary.)</p> <p>2016-8-1: TAG has sent the check with \$501.40 to Mary/AT&T.</p> <p>2016-8-3: CN emailed Mary with description, requested cost estimate of additional as-builts.</p> <p>2016-8-11: Mary called for clarification, said she mailed first package this week.</p> <p>2016-8-15: HDR received first set of as-builts, saved to PW.</p> <p>2016-8-17: Mary left voicemail requesting TG pages with narrowed request area highlighted</p> <p>2016-9-1: Kathy Montoya sent invoice \$1286.20.</p> <p>TAG to pay invoice (not paid yet), CN preparing sketches to send.</p>

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7	SENER	Los Angeles Department of Water and Power (LADWP)	2015-12-30 To 2016-08-20	(213) 367-4957 Edgar.Mercado@ladwp.com (213) 367-2715 Ernest.Fresquez@ladwp.com Charles.Dunn@ladwp.com Jeffrey.Williams@ladwp.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-20: Left voicemail 2016-01-26: Spoke with Ernie; would like TG map pages to narrow down the research area; sent to Ernie 2016-6-24: resent letter by email + Google Earth file 2016-7-18: called & emailed to follow up, resent list of TG grids + 4/20 letter + Google Earth file, voicemail 2016-7-18: reached Ernie, leaving the group, recommended contacting his boss, Edgar Mercado. Emailed Edgar 2016-4-20: letter, Google Earth file, left voicemail. 2016-8-3: TAGC called & left voice message to Edgar. 2016-8-10: TAG called & left voice message to Edgar. No response. 2016-8-15: TAG emailed & left voice message to Edgar again. No response yet. 2016-8-18: TAG emailed 4/20 letter + Google Earth + TG pages to Charles Dunn & Jeffrey Williams. 2016-8-19: Charles Dunn emailed TAG, too busy for large requests, recommended Navigate LA + Google Earth/field review. TAG to follow recommendations. 2016-8-20: TAG will use substructure map from Navigate LA +Google Earth/field review to figure out the LADWP facilities. This line item can be move to the lower priority.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
8	SENER	Air Touch Cellular (Telephone)	2015-12-23 To 2016-02-26	(818) 898-2352 To matthew.kang@cableng.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-23: Would like a list of TG map grids 2016-01-04: Emailed a list of TG grids; waiting for response 2016-01-06: Emailed Thomas Guide Pages with markups 2016-01-07: Response it will take then 1-2 months to complete the research since it's a major request 2016-02-22: Sent follow up email to Air Touch Cellular 2016-02-23: Followed up in email; they will send info to HDR soon 2016-02-24: HDR sent email to Kang for Sharepoint login/upload 2016-02-26: Air Touch Cellular sent us information on their facilities via email; HDR to review.
9	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	2016-02-11 To 2016-10-12	Sam Queszada 4th floor, Survey Department, 900 S Fremont Ave Alhambra, CA 91803	TAGC/Ray Wang HDR/Cherie Nixon	2016-2-11: Shane downloaded a few pdfs in Palmdale fr website -> TAG to search for more as-builts online, find contact name (check with Stan Pegadiotes from San Districts) 2016-7-28: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather sewer plans. 2016-8-1: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather ALL sewer as-builts. Those drawings are all within the City of Palmdale. 2016-8-2: Hank Fung also emailed conceptual sewer maps to HDR. 2016-10-12: TAG evaluated the as-built and input applicable information in CAD base. uploaded files in 4.10 folder in PW.

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10	SENER	AT&T - Transmission	2015-12-30 To 2016-06-27	(213) 787-9996 mg1371@att.com g05131@att.com (cc this email)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-06: Emailed confirmed there are no AT&T TCA facilities in the project area 2016-6:24: resent 4/20 letter by email + Google Earth file 2016-6-27: Maria forwarded original 6/13 response
11	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	2016-07-01 To 2016-08-08	(626) 458-3980 Fung hfung@dpw.lacounty.gov (626) 458-3935 Swindle	TAGC/Ray Wang HDR/Cherie Nixon	2016-7-01: Letter drafted, waiting for internal approval 2016-7-18: Letter sent + email with comments, called Hank Fung. Hank said they can look for the plans, also advised coming in to check microfiche, and checking with the Army Corps of Engineers. 2016-7-19: Hank requested GIS files used to create Google Earth file. 2016-7-20: Hank requested we resend Google Earth file. Resent Google Earth + GIS files. 2016-7-26: Hank emailed to let us know they're working on gathering as-builts for us. 2016-7-28: Bill asked if LACFC has facilities in Palmdale, emailed Hank, he confirmed none. 2016-8-2: Hank Fung will mail SD as-builts to Cherie/HDR.8/ 2016-8-4: Hank Fung has 1.4G files ready for TAG to pick up. 2016-8-8: TAG has copied the 1.4G files from Hank Fung.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
12	SENER	County Sanitation Districts of Los Angeles County (LACSD)	2016-02-11 To 2016-08-25	(562) 908-4288 x1204, x1205 (engineering counter) engineeringcounter@lacsdsd.org (562) 908-4288, x1620 (Stan P) Klipock@lacsdsd.org	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-2-11: Shane emailed engineering counter to request as-builts for portion in Palmdale (not allowed to request larger area at that time, 4/20 letter addressed to LACDPW)</p> <p>2016-2-24: Koesen Lipock fr eng counter emailed link to Shane, 119 pg pdf</p> <p>2016-7-19: emailed 4/20 letter to eng counter, request remaining as-builts</p> <p>2016-7-20: Koesen requested map, can't open kmz file, emailed pdf.</p> <p>2016-7-23: Stan Pegadiotes emailed, no longer with sewer design section.</p> <p>2016-7-25: Koesen emailed link, CN forwarded to TAG. (7/27 reforwarded email to TAG.)</p> <p>2016-7-29: TAG emailed a sewer drawing list to LACSD Engineering Counter.</p> <p>2016-8-2: Koesen emailed to mention that they are working on the collection of sewer as-builts.</p> <p>2016-8-4: Koesen emailed a link to the drox for TAG to download the sewer as-builts. TAG has downloaded them and uploaded to PW.</p> <p>2016-8-11: TAG coordinated with Koesen for collecting some additional as-builts that we've not gathered last time. no response yet.</p> <p>2016-8-16: Koesen responded that he will upload the additional as-built to the box (FTP)</p> <p>2016-8-24: TAG emailed to request a status.</p> <p>2016-8-25: TAG has downloaded all additional as-built drawings from LACSD. This line item can be moved to the lower priority.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
13	SENER	Metropolitan Water District	2015-12-14 To 2016-06-07	(213) 217-6534 (213) 217-7474 szareh@mwdh20.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-14: Provided HDR a card for project reference ID 2015-12-21: As-builts received 2016-5-26: rec'd letter w as-built plans 2016-6-7: replied requesting missing document listed in letter
14	SENER	Palmdale Water District	2016-05-20 To 2016-07-28	(661) 456-1022 (661) 947-4111 (Eng Dept.) mwest@paldalewater.org mknudson@palmdalewater.org	TAGC/Ray Wang HDR/Cherie Nixon	2016-5-20: met w Matthew Knudson, Joe McNeely, Roberto Rodriguez (Sener), RDP 2016-6-24: resent letter by email + Google Earth file (to MK, cc MW) 2016-7-19: resent letter by email + Google Earth file (to MW, cc MK), also emailed Roberto Rodriguez to check if he had received anything 2016-7-20: left voicemail for Michael West. He called back, requested narrower research area. We'll add him to Sharepoint, he'll look into the GIS files that Matt promised, and the as-built drawings. Emailed GIS files of research boundary + narrower as-built boundary. 2016-7-21: Richard Heinonen emailed GIS files. Mike West now has Sharepoint access to upload as-builts, emailed link & password. 2016-7-25: Mike West emailed re Sharepoint issues. CN responded with suggestions. 2016-7-26: Mike West emailed to verify mailing address, will send a disk in the mail. 2016-7-28: Received disk from Mike West with pdf as-builts.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
15	SENER	Plains All American Pipeline (Oil)	2015-12-30 To 2016-09-07	(562) 728-2817 (Becky Sitton) bsitton@paalp.com (562) 728-2371 pjbawden@paalp.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-30: Sent out email with attached letter for utility request</p> <p>2016-01-04: Left voicemail to follow up</p> <p>2016-01-15: Spoke with Paula; would like us to email them TG pages with markups; follow up next week for the map request</p> <p>2016-02-04: Sent out follow up email</p> <p>2016-02-17: Left voicemail to follow up</p> <p>2016-02-22: Called at 1:15 PM; no response</p> <p>2016-02-23: Received email Becky Sitton will be working on HSR</p> <p>2016-02-24: Becky will be sending us information in the mail; will send hardcopy in mail 02/25</p> <p>2016-02-29: Received hardcopies of the plans in the mail from Plains; HDR to review</p> <p>2016-4-23: Letter received by Plains</p> <p>2016-5-11: email to ask if we want duplicates fr previous request, responded no</p> <p>2016-5-17: hard copies received - appear to be as-builts, but can't find distance fr street CL</p> <p>2016-8-5: CN verified to Becky Sitton that we have all as-builts in the Metrolink R/W (after series of emails that turned out to be irrelevant.)</p> <p>2016-8-18: CN emailed Becky to verify shared trench w Centurylink (was Qwest), Becky confirmed.</p> <p>2016-9-6: CN emailed Becky to ask if any of its pipes are above ground.</p> <p>2016-9-7: Becky replied that it's all underground except at Hollywood Way where it is encased in cement, and Pacoima Wash where it hangs on the bridge.</p>

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16	SENER	State of California, Department of Water Resources	2016-05-27 To 2016-06-20	(661) 994-8574 jdes@water.ca.gov	TAGC/Ray Wang HDR/Cherie Nixon	no response, HDR and/or RDP planning to meet with them 2016-5-27: DWR gave as-builts to the RDP (see 05.11.02 folder) 2016-6-20: DWR gave hydrology report to the RDP (See 05.11.02 folder)
17	SENER	AT&T - Transmission (Telephone)	2015-12-28 To 2016-08-25	(714) 963-7964 (Forkert) joef@forkertengineering.com (925) 997-2413 (Hamill) (714) 963-7964 (Shapzian) (559) 442-2252 (Shermoen)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-28: Responded with two letters; Sending AT&T plans in the mail (hardcopies) 2015-12-30: Received Plans and letter hardcopies in the mail; HDR to review 2016-5-3: email w lease letter & conflict letter 2016-5-9: received hard copies in the mail 2016-8-24: CN left voicemail asking Joe to call me re where to find cable locating dimensions in as-builts. 2016-8-25: Joe called CN, explained leased vs owned. They can provide maps of owned conduit, contact other AT&T Dig Alert contacts for leased conduit. Mapping shows as-builts at Metrolink Ventura sub, mapping in other locations.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
18	SENER	Los Angeles County Water Works	2016-02-24 To 2016-09-20	(661) 300-3337 bhua@dpw.lacounty.gov jkitto@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-02-24: Bing Hua emailed, uploaded pdfs to Sharepoint site</p> <p>2016-5-3: Bing emailed to let us know that they have no additional facilities in the new research area that they hadn't already sent</p> <p>2016-7-26: Jason Kitto asked for shape files of research area, CN emailed them. Also emailed list of pdfs that Bing Hua sent in Feb to avoid duplicate efforts.</p> <p>2016-7-28: Jason Kitto asked for GIS or Google Earth file of alignments, CN emailed it.</p> <p>2016-8-1: TAG visited LAC Water Works (Jason Kitto, 2nd floor Water Resource Dept.). He said that he has completed the water research and it will take 3-4 weeks for them to gather as-builts and send directly to Cherie/HDR.</p> <p>2016-9-20: CN emailed Jason Kitto to follow up on status of request. Jason called and said that what Bing sent covers everything they have in our research area.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
19	SENER	Southern California Gas (SCG) - Transmission	2015-12-30 To 2016-08-24	(818) 701-3253 (Chris Coria) Ccoria@semprautilities.com (818) 701-6679 (818) 701-4546 rsquires@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-14: Resent letter by email to Rosalyn; asked us to follow up next Tuesday 01/19 2016-01-15: Sent Squires .kmz file per request 2016-01-15: Squires sent plans per request; HDR to review 2016-5-5: Estafania Sanchez requested Google Earth file of request area 2016-6-22: emailed Google Earth file to Estafania 2016-6-24: Estafania called to verify what we need, and to check if our previous request was fulfilled 2016-6-27: Estafania tried to email files, but they didn't come through. Janet will add her to the Sharepoint site. 2016-6-28: Sharepoint access didn't work, so Estafania sent info through multiple emails. 2016-8-23: CN emailed Estefania to request as-builts, priority Ave S (currently have maps with distances but not as-builts. 2016-8-24: Estefania responded that another engineer can work with us to send as-builts after we send preliminary construction drawings. CN requested contact info for that engineer, Estefania gave Chris Coria's info. CN emailed Chris to request as-builts of gas mains in Ave S. 2016-9-6: CN emailed to ask if any of its pipes are above ground. 2016-9-9: Estafania responded to ask for clarification, CN responded.
20	SENER	T-Mobile (Telephone)	2015-12-09 To 2016-06-27	(818) 840-0808 (805) 279-3513 shenderson@synergy.cc glake@synergy.cc	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-09: Gregg Lake emailed pdfs package returned 2016-6-24: resent letter by email + Google Earth file 2016-6-27: Gregg Lake emailed, didn't receive letter, send directly to him next time. No utilities.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
21	SENER	XO Communications (Telephone) - Los Angeles	2015-12-07 To 2016-08-23	(949) 417-7841 matt.bergine@xo.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-07: Need to review information provided 2016-4-27: received pdf as-builts 2016-8-2: CN emailed Matt to ask questions about the drawings they sent. 2016-8-3: Matt responded with answers to questions.
22	SENER	City of Palmdale	2015-12-30 To 2016-10-12	(661) 267-5347 (Deyo) jdeyo@cityofpalmdale.org (661) 267-5272 (Autry) sautry@cityofpalmdale.org (661) 267-5337 (Behen) mbehen@cityofpalmdale.org (661) 267-5300 (Gen City No.) bpadilla@cityofpalmdale.org	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-04: Stephanie Autry from City of Palmdale responded to email; Fwd email to Bill Padilla, City Engineer; waiting for response 2016-01-05: Email confirmed that the project research area is not in their City's limits 2016-4-27: Jim Deyo emailed GIS files for sewers 2016-7-26: TAG Sent email to Jim GIS +Google Earth and April Letter pdf requesting storm drain As-builts; 7/26 Received Storm Drain GIS Files from Jim. 2016-7-26: TAG left a voicemail message to Jim no response. 2016-8-1: Jim emailed TAG, sending CD with storm drain as-builts today 2016-8-2: TAG asked Jim who should be contacted for other as-builts such as roadway, water, lighting, etc. Jim said Engineering section. He will also forward this request to City Engineer. Engineering Section will collect everything in next couple of weeks. TAG will follow up. 2016-8-10: TAG emailed Jim Deyo to confirm if he has mailed to CD to us but he has not done yet due to waiting for other utility as-builts together. 2016-8-24: TAG followed up and Jim Deyo responded and he is still waiting for other as-builts. Eng Dept. has several

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
						<p>large data requests and they are busy. will find out when they can have all the information.</p> <p>2016-8-29: TAG emailed Jim to request if he can send whatever available information to us and send a separated mail for the remaining files.</p> <p>2016-9-1: Jim emailed TAG to confirm mailing address.</p> <p>2016-9-7: TAG received 8 disks of CD from CoP (Jim), will evaluate the as-builts and upload the files to PW.</p> <p>2016-10-12: TAG evaluated the files which are "1A". The files were saved in 4.10 folder in PW.</p>
23	SENER	Los Angeles County Department of Public Works (LACDPW)	2016-01-04 To 2016-08-25	(626) 458-3109 dchenowe@dpw.lacounty.gov jbose@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-01-13: Contact Anne Marie Gilmore and Kari Eskridge from 710 project for LACDPW utility coordinator; Eskridge provided contact, Daryll Chenoweth; called and confirmed Daryll Chenoweth is the contact & provided mailing address; sent letter hardcopy in mail & email</p> <p>2016-4-26: Daryll emailed long description for how to pursue further info</p> <p>2016-8-25: TAG has followed Daryll's email instructions and collected the as-builts for sewer, storm drain, Street Lighting (limited information).</p> <p>See other LACDPW line items for more info.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
24	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	2016-07-28 To 2016-08-24	(626) 300-4753 jchow@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-7-28: TAG visited LACDPW street lighting Dept. (Jeff Chow 1000 Fremont 4th floor). He'd forward the info to Hank Fung that day.</p> <p>2016-8-11: TAG emailed Jeff Chow to confirm if he could send as-builts to us since Hank did not include street lighting as-builts. Jeff is on vacation and be back on Aug 15.</p> <p>2016-8-17: Jeff and Jimmy sent a pdf showing street lighting drawing number.</p> <p>2016-8-18: TAG emailed Jeff to request real as-built drawings.</p> <p>2016-8-24: Jeff Chow responded and instructed that Street Lights are owned and maintained by SCE. As-built drawings can be requested from SCE.</p>
25	SENER	Time Warner Cable (Telephone)		(661) 259-6909 dianell.caamano@twcable.com	HDR/Cherie Nixon	<p>package returned follow up with Dave Bell</p>
26	SENER	SCG - Distribution Valencia/ Branford/ Saticoy/ Lancaster (Gas)	2016-01-04 To 2016-08-24	(818) 701-3335 (Bruce) (818) 701-3448 tbruce@semprautilities.com bwimmer@semprautilities.com elewis3@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>Would like more detail on the alignments on Thomas Guide Map</p> <p>2016-01-04: Emailed a list of TG grids; waiting response to Timothy Bruce</p> <p>2016-01-11: Received an invoice from SCG before they can distribute the plans</p> <p>2016-02-25: SCG Dist sent in the mail a CD with the plans</p> <p>2016-03-01: HDR received CD with plans</p> <p>2016-5-20: letter w invoice \$1512 (Timothy Bruce)</p> <p>2016-7-25: email & voicemail to Tim to check status, back from vacation tomorrow.</p> <p>2016-7-26: Tim emailed to confirm we still owe \$1512. HDR reminded the RDP.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
						2016-8-2: CN emailed & left voicemail for Dennis Kim of RDP to ask about agreements. 2016-8-5: Dennis called CN, suggested asking Juan Carlos to approve payment. 2016-8-10: RDP approved payment of \$1512, TAG to pay fee. 2016-8-15: TAG mailed the check of \$1512 to SCG (Billing Dept.) 2016-8-16: CN emailed Tim to let him know the check is in the mail, and to request an estimate of when we will receive the drawings. 2016-8-19: Tim Bruce emailed, said he's putting CD w as-builts in the mail. 2016-8-24: HDR received CD w atlas sheets. CN emailed to request clarification of legend. Tim sent legend.

Appendix D: Utility Log Index

Heading	Explanation
No.	Sequentially number each entry
Region	Regional Consultant
Owner	Utility Owner
Contact	Name of the contact person representing the Owner
Title	Job title of the contact person representing the Owner
Address	Street Address, City, and Zip Code of the Owner's contact location
Phone	Phone number for Owner's representative
Email	Email address for Owner's representative
HSR Alignment	High-Speed Train Alignment Subsection Alternative
Station	Stationing along the alignment to locate the facility
Facility Type	Type of utility being conveyed
Size	Size of utility facility
Units	Units of measure for the size of utility
Length	Length of utility being impacted - Use separate entries for abandonment and relocated utilities
% Cost Allocation	Percentage of construction cost to be borne by CHSRA (requires input by CHSRA)
Disposition	State the type of work being performed (removed, relocated, protect in place)
Date	Date of contact with Owner
Correspondence Type	Type of correspondence with Owner (phone, fax, letter, email)
Description	Description of the discussion and/or request. Include reference to email or letter dates

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California High-Speed Rail Authority

Palmdale to Burbank Project Section

DRAFT PEPD ADDENDUM
SR14A / E1A / E2A

Appendix 3.6-A High Risk &
Major Utilities Impact Report
SR14A

August 2022



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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ACRONYMS AND ABBREVIATIONS

ANF	Angeles National Forest
Authority/CHSRA	California High-Speed Rail Authority
AVEK	Antelope Valley-East Kern County Water Agency
CEQA	California Environmental Quality Act
CFS	Cubic Feet per Seconds
CHSTP	California High-Speed Train Project
DERiM	Distributed Energy Resource Interconnection Map
DPW	Department of Public Works
EIR	Environmental Impact Report
EIS	Environmental Impact Study
FRA	Federal Railroad Administration
GIS	Geographic Information System
HDC	High Desert Corridor
HMF	Heavy Maintenance Facilities
HSR	High-Speed Rail
kV	Kilo Volts
LACWD	Los Angeles County Waterworks Department
LACFCD	Los Angeles County Flood Control District
LADWP	Los Angeles Department of Water and Power
LMF	Light Maintenance Facility
MWD	Metropolitan Water District
NB	North Bound
NEPA	National Environmental Policy Act of 1969
OH	Overhead
PB	Palmdale to Burbank
PAA	Preliminary Alternatives Analysis
PSI	Pounds per Square Inch
RDP	Rail Development Partners
RSA	Resource Study Area
ROW	Right of Way
SB	South Bound
SCE	Southern California Edison
SCG	Southern California Gas (The Gas Company)
SCRRA	Southern California Regional Rail Authority (Metrolink)
SGMNM	San Gabriel Mountains National Monuments

SR	State Route
TM	Technical Memorandum
TPSS	Traction Power Substation
UG	Underground
UPRR	Union Pacific Railroad
VM	Voicemail
WD	Water Department

1 INTRODUCTION

The planning, design, construction, and operation of the California High-Speed Rail (HSR) System are the responsibility of the California High-Speed Rail Authority (Authority), a state governing board formed in 1996. The Authority's statutory mandate is to develop an HSR system coordinated with the state's existing transportation network, including intercity rail and bus transit, regional commuter rail transit, urban rail and bus transit, highways, and airports. The Authority's plans call for high-speed intercity train service on more than 800 miles of track throughout California, connecting the major population centers of Sacramento, the San Francisco Bay Area, the Central Valley, Los Angeles, the Inland Empire, Orange County, and San Diego. Implementation of the California HSR System is planned in two phases. Phase 1 would connect San Francisco to Los Angeles and Anaheim through the Central Valley. Phase 2 would connect the Central Valley (from Merced) to Sacramento, and another extension is planned from Los Angeles to San Diego. The California HSR System would meet the requirements of Proposition 1A, including maximum, nonstop service travel time between San Francisco and Los Angeles of two hours and 40 minutes.

The Palmdale to Burbank Project Section would be a critical link in the Phase 1 California HSR System connecting San Francisco and the Bay Area to Los Angeles and Anaheim. In 2005, the Authority and the Federal Railroad Administration (FRA) relied on Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) documents to select the State Route (SR) 58/Soledad Canyon and Metrolink corridors as the preferred alignment between Bakersfield and Sylmar, with a station in the City of Palmdale. This alignment would extend east from Bakersfield along SR-58, generally following SR-58 through the Tehachapi Mountains to Mojave, along Metrolink corridors through Antelope Valley and Soledad Canyon, and generally follow SR-14 from the city of Santa Clarita to Sylmar in the City of Los Angeles (FRA 2005). The SR-58/Soledad Canyon and Metrolink corridor from Bakersfield to Los Angeles was later split into two sections for more detailed project-level evaluation: the Bakersfield to Palmdale Section and the Palmdale to Los Angeles Section.

Public scoping conducted in 2007 defined the alternatives for the Palmdale to Los Angeles Section. Refer to the Palmdale to Los Angeles Preliminary Alternatives Analysis Report (PAA) (2010), and the Palmdale to Los Angeles Supplemental Alternatives Analysis (SAA) Reports (2011, 2012, and 2014) for this alignment and station screening evaluation process.

The May 2014 SAA recommended to split the Palmdale to Los Angeles Section into two distinct sections: Palmdale to Burbank and Burbank to Los Angeles. Following this recommendation, a second public scoping period took place from July to September 2014, and the Palmdale to Burbank SAA Report (2015) was presented to the Authority Board of Directors in June 2015. The Authority subsequently explored alignment refinements to address concerns raised at the June 2015 Board meeting and through previous stakeholder outreach. The 2016 SAA, presented to the Authority Board of Directors in April 2016, reflects refinements to the rail alignments, stations, and ancillary features presented in the 2015 SAA, which ultimately became the basis for the Build Alternatives analyzed herein.

This report provides additional information to supplement the *Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report Refined SR14* (California High-Speed Rail Authority [Authority] 2019). The information described in this report was developed during the preparation of the Draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the Palmdale to Burbank Project Section of the California High-Speed Rail System, subsequent to the completion of the High Risk and Major Utility Impact Report. As such, preparation of a supplement to the *Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report Refined SR14* was needed and applicable.

Through consultation with resource agencies, the Authority developed additional Build Alternatives to reduce impacts to aquatic resources south of the city of Palmdale (i.e. Una Lake).

This High Risk and Major Utility Impact Report Supplement includes previously undisclosed information on the SR14A Build Alternative in the alignment section that is not coincidental with

Refined SR14 Build Alternative, and therefore was not defined in the Palmdale to Burbank Project Section Record Set High Risk and Major Utility Impact Report Refined SR14 (California High-Speed Rail Authority [Authority] 2019).

2 PROJECT DESCRIPTION

The Palmdale to Burbank Project Section includes six potential alignments that would extend approximately 38- to 43-miles through a variety of land uses and ecoregions, including urban, rural, and mountainous terrain in Southern California. From the north, this project section would begin at Avenue L in Lancaster, traverse south through the Palmdale Transportation Center (Palmdale TC) Station, continue southwest beneath the Angeles National Forest (ANF), and then enter the San Fernando Valley where it would connect with the Burbank Airport Station and terminate just north of Winona Avenue. This project section also includes a potential Maintenance Facility in the Lancaster area.

2.1 Build Alternatives

The Authority initially identified three Build Alternatives to be analyzed in the Palmdale to Burbank Project Section EIR/EIS, which were developed through its Supplemental Alternatives Analysis (SAA) process (Refined SR14, E1, and E2). Subsequently, and through consultation with resource agencies, the Authority developed additional Build Alternatives to avoid and minimize impacts to aquatic resources south of the city of Palmdale (e.g., Una Lake). These new alignments depart from the initial Build Alternatives near East Avenue R where these alignments curve eastward and pass Una Lake to the east. The new alignments continue south and then join, at varying locations, the alignments associated with the three initial Build Alternatives. The new Build Alternatives are referred to as the SR14A, E1A, and E2A. Figure 2-1 depicts the SR14A, E1A, and E2A Build Alternatives relative to the Refined SR14, E1, and E2 Build Alternatives.

Consistent with the Refined SR14, E1, and E2 Build Alternatives, the SR14A, E1A, and E2A Build Alternatives would include the following alignment types:

- **At-Grade Profile**—This alignment type would follow the existing ground level, often with minor cuts and fills.
- **At-Grade Covered**—This alignment type would follow the existing ground level in tunnels covered with fill.
- **Cut-and-Cover Profile**—This alignment type would be constructed below ground surface in a shallow, covered trench.
- **Retained Cut/Trench Profile**—This alignment type would resemble the cut-and-cover profile but would be uncovered and would require retained trench walls.
- **Tunnel Profile**—This alignment type would be constructed in bored tunnels with depths ranging from 100 feet to 2,500 feet.
- **Elevated/Aerial Structure**—This alignment type would be constructed in elevated structures supported by concrete columns to cross above roadways, streams, railroads and rugged terrain.

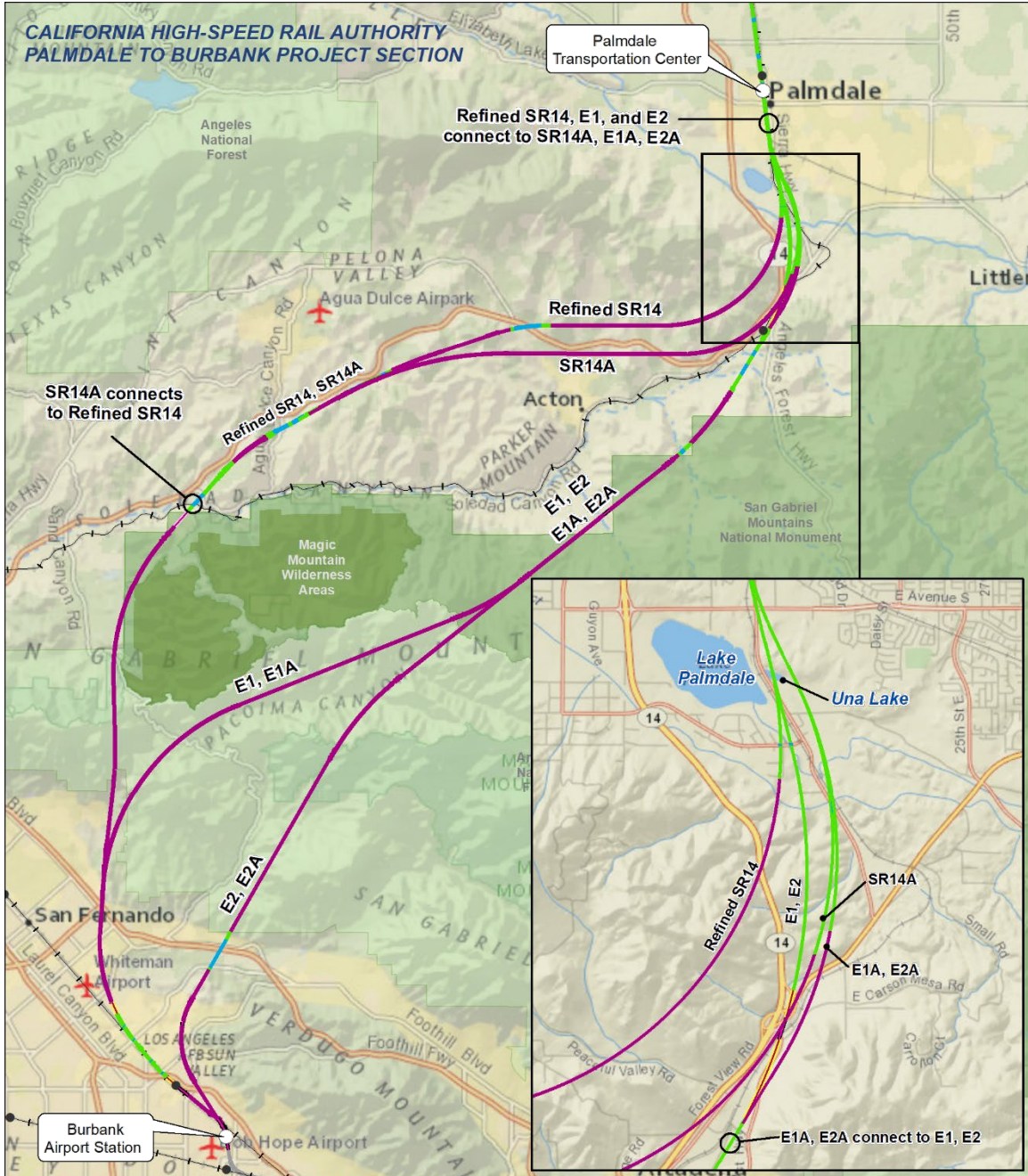
Tunnels would allow the Build Alternatives to traverse large areas without directly affecting surface conditions. Table 2-1 compares the length of tunnels associated with each of the Build Alternatives. The SR14A Build Alternative would require the longest length of tunnels, while the E2 Build Alternative would require the shortest.

Table 2-1 Build Alternative Tunnel Lengths

Build Alternative	Tunneled Alignment Lengths (Linear Miles) in miles
Refined SR14	25.58
SR14A	28.86
E1	24.64
E1A	26.31

Build Alternative	Tunneled Alignment Lengths (Linear Miles) in miles
E2	22.48
E2A	24.14

The new SR14A, E1A, and E2A Build Alternatives alignments vary from the initial Build Alternative alignments for each associated corridor only within the Central Subsection of the Palmdale to Burbank Project Section. The six Build Alternatives share the same alignments and footprints within the Palmdale and the Burbank Subsections.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
 Source: HSR Authority, 05/2020. Basemap Source: National Geographic, 2016

May 28, 2020

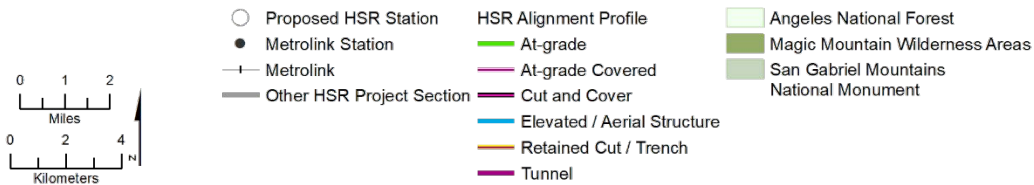


Figure 2-1 Palmdale to Burbank Build Alternatives

2.1.1 SR14A Build Alternative

Within the Palmdale Subsection, the alignment for all six Build Alternatives would be identical, including alignments and other facilities.

Within the Central Subsection, the SR14A Build Alternative alignment would diverge from the Refined SR14 Build Alternative south of Avenue R, continuing south of Spruce Court at grade, curving eastward and turn south approximately 300 feet east of Una Lake. South of Una Lake, the SR14A Build Alternative alignment would curve westward, cross over the SCRRA Antelope Valley Line, Sierra Highway and the Soledad Siphon, and continue southwest and enter a tunnel portal approximately 0.5 mile northeast of the Sierra Highway/Pearblossom Highway intersection. The SR14A Build Alternative alignment would then continue westward, in an approximately 13-mile-long tunnel before surfacing approximately 0.75 mile east of Agua Dulce Canyon Road. The alignment would transition between at-grade and elevated profiles closely paralleling State Route (SR) 14 before entering an approximately 1-mile-long tunnel. Transitioning from tunnel to at grade, the SR14A Build Alternative alignment would converge with the Refined SR14 Build Alternative alignment at the Soledad Canyon Mining Operations (Vulcan Mine) site. The remaining SR14A Build Alternative alignment south of the Vulcan Mine site, under the Angeles National Forest (ANF) including San Gabriel Mountains National Monument (SGMNM), and into the San Fernando Valley, would be identical to the Refined SR14 Build Alternative alignment.

Within the Burbank Subsection, the six Build Alternatives would be identical, including alignment and other facilities.

3 PURPOSE AND SCOPE

This report identifies the impacts to existing utilities from the proposed Build Alignments and improvements associated with the project. The preliminary investigation would identify High Risk and Major utilities affected by the proposed California HSR System track corridor, California HSR System station and systems facilities, upgraded UPRR and Metrolink facilities, bridge structures overcrossings, roadway grade changes and alignments, and drainage. This report focuses on the High Risk and Major Utilities that present the most significant impacts to the proposed SR14A alignment.

The Authority's definitions of High and Low Risk utilities were used in this assessment (per TM 2.7.4).

High Risk Utilities are defined as existing facilities transporting the following materials, whether or not they are encased:

- Petroleum Products (jet fuel, crude oil, gas oil, gasoline, etc.)
- Oxygen
- Chlorine
- Toxic or flammable gases or liquids
- Natural gas pipelines of any size
- Underground electric supply lines that conduct greater than 300 volts (without effectively grounded metal sheaths)
- Water in pressured pipeline

Other High Risk Utilities that could Disrupt the Operation of CHSTP:

- Sanitary Sewer in pressured pipeline
- Storm Drain in pressured pipeline.

Low Risk Utilities include:

- Sanitary Sewer gravity pipelines
- Storm Drain gravity pipelines
- Fiber Optics communication lines
- Telecommunications lines

Major Utilities are defined as subsurface, above ground or overhead facilities used for transmission (or subtransmission) regardless of size, shape or method of conveyance. These would include:

- Overhead and subsurface power transmission lines, 50 kV or greater
- Fiber Optic/Telecommunications transmission lines
- Sanitary Sewer trunk lines, 12-inch diameter or greater
- (Storm Drains are not included in this report; see the Hydrology and Hydraulics Report Alignment SR14A PEPD Addendum Record, Set, August 2020).

Minor Utilities are defined as any subsurface, above ground, or overhead facility used as distribution lines, or as service laterals to individual parcels or properties.

Note that not every utility type or size listed above exists in this subsection of the project.

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4 UTILITY INFORMATION COLLECTION

This section discusses the data collection efforts to map existing facilities and to identify the impacted facilities along the proposed SR14A Build Alternative.

4.1 Data Sources

The design team reached out to both public and private utility owners whose facilities would potentially be affected by the proposed footprint of all three Build Alternatives. The first solicitation effort to acquire as-built and utility service maps was to send letters, with exhibits depicting the proposed alignments, to all utility owners within the potential project footprint. The next course of action was to follow up with emails and phone calls if the utility owner was not responsive. A utility owner contact log has been established as a living document to record the due diligence taken during information gathering stage of this study (See Appendix C).

In addition, utility record drawings and as-built information shall be collected from various sources including public agencies (navigatela.lacity.org), third-party drawings and respective stakeholders. Site visualization and Google Earth map were also used to identify and/or confirm various above ground and aerial facilities.

4.2 Utility Owners – As-Built Drawings and Service Maps

Existing utility record maps and as-built drawings can vary in accuracy, depending upon the time and method of preparation.

Ideally, we would have received as-built engineering drawings and electronic maps in GIS, Microstation, or AutoCAD from every utility owner. Unfortunately, this was rarely the case. We received information in a variety of formats, with varying levels of detail. Formats received from utility owners included:

- As-built engineering drawings (hard copy, pdf)
- Service maps (GIS, Microstation, AutoCAD)
- Facility maps (hard copy, pdf)
- Various forms of vague mapping with little to no detail (various)

From each owner who couldn't provide as-built drawings, we attempted to collect some form of mapping that showed the location of each pipe or conduit in relation to the street centerline, pipe size, and material.

4.3 Web-based Geographic Information Systems

The City of Palmdale's online GIS verifies the water utility service zoning within Palmdale. The primary water service providers are the Palmdale Water Department and Los Angeles County Waterworks Department. However, this GIS information does not specify where the pipes are relative to the street centerlines.

Los Angeles County Flood Control District's (LACFCD) GIS data shows existing storm drains without specifying distance from the street centerline. For known owners, the GIS provides a link to the as-built. In Palmdale, only sizes are shown and the owners are listed as unknown.

SCE's Distributed Energy Resource Interconnection Map (DERiM) shows its transmission and sub transmission line, distribution and subtransmission substations within the map. Information provided includes voltage rating, circuit name, substation, and system.

4.4 Google Map Overlays

SoCal Gas's website uses an overlay of the gas transmission and distribution line within Google Maps. It shows approximation of its utility alignment and no information of its pipe sizes.

The Center for Land Use Interpretation displays in three part web resources for LADWP facility information and location that overlay google maps within its website. Part 1 shows locations and brief information about LADWP source of power. Part 2 shows locations and brief information about receiving stations, converter stations, switching stations, and other control facilities. Part 3 shows location and brief information about LADWP local distribution stations within its network.

4.5 Google Map Street View

This method was used to verify above ground structures such as utility poles, above ground vaults and utility cabinets, maintenance holes for sanitary sewers and storm drains, and standpipes for water valves.

5 UTILITY IMPACTS

Utility impacts along the SR14A Build Alternative are grouped into two risk categories, and two significant scale categories:

- High Risk Utilities
- Low Risk Utilities
- Major Utilities
- Minor Utilities

This report focuses on the evaluation of impacted High Risk and Major Utilities along the SR14A Build Alternative.

5.1 Significant Impacts

High Risk and Major Utilities as listed above that may impact the operations are defined as “Significant Impacts”. High Risk utilities identified in this rail alignment of the project include natural gas lines, petroleum products, underground power, and pressurized water lines. “Major” refers to Low Risk Utilities that are also critical in transmission of services. Major utilities identified in this rail alignment of the project include gravity sanitary sewer trunk lines and overhead power transmission lines.

Reference Table 5-1 for the total count of “Significant Impacts.” For more detailed information, see the utility logs in Appendix B.

Table 5-1 Significant Utility Impacts

	SR14A
All High Risk	71
Major Low Risk	36
Total	107

5.2 High Risk

High Risk utilities are defined as petroleum products, oxygen, chlorine, toxic or flammable gases or liquids, all sizes of natural gas pipelines, underground power supplies, pressurized water pipelines, and pressurized sewers. For the list of all high-risk utilities within the footprint, see Appendix B. Ongoing updates to the utility composite sheet would reflect updates to this report.

5.2.1 Petroleum Products (Oil, Gasoline, Crude)

The portion of the SR14A Build Alternative analyzed will not impact any petroleum lines.

5.2.2 Natural Gas

Utility maps in Palmdale indicate the two 30-inch natural gas transmission line along East Avenue S are notable impacted. The Southern California Gas Company owns this pipeline.

Within the Project area, the impacted existing SCG gas distribution mains range from 8-inch to 12-inch. See Table 5-2 for the total count of impacted natural gas lines. Refer to Appendix B for more detailed information.

Table 5-2 Natural Gas Impacts

	SR14A
Natural Gas	9

5.2.3 Water Utilities

Several waterlines would be impacted by the footprint of the proposed Build Alignment, and the associated roadway network realignments. The owners of the impacted facilities include Palmdale Water District, Los Angeles County Waterworks District 40 – Region 34 and District 37 and Antelope Valley – East Kern County Water Agency (AVEK). Both transmission and distribution lines are included because water is defined as high risk, therefore all water pipes are considered to have significant impacts. Utility sizes vary from 8-inch to 48-inch diameter.

Reference Table 5-3 for the total count of impacted water lines. For more detailed information, see the utility logs in Appendix B.

Table 5-3 Water Line Impacts

	SR14A
Water Lines	62

5.2.4 Underground Power Utilities

Impacted underground power utilities were not identified within our Project Area.

5.3 Major Utilities

Based on the utility research conducted, two types of major utilities were identified along the SR14A Build Alternative: overhead power and trunk sanitary sewers.

5.3.1 Overhead Power Facilities

The existing overhead power transmission/sub-transmission lines crossing the proposed Build Alignment and road realignments have been identified as having impacts by the project. These overhead lines are between 12kV and 500kV facilities that belong to SCE.

Table 5-4 depicts the total count of impacted power transmissions. For more detail information, see the utility logs in Appendix B.

Table 5-4 Overhead Power Line Impacts

	SR14A
OH Power Lines	31

5.3.2 Sanitary Sewer Transmission and Collection lines

Similarly, several sanitary sewers would be impacted by the footprint of the proposed SR14A alignment, the associated roadway network realignments, and differential grading. These trunk sewers, 12-inch diameter and greater, are owned and operated by the City of Palmdale Sanitary Maintenance District and Los Angeles County Sanitary District.

Reference Table 5-5 for total count of impacted major sewer lines. For more detail information, see the utility logs in Appendix B.

Table 5-5 Sanitary Line Impacts

	SR14A
San Sewer Lines	5

5.4 Other Significant Utility Related Facilities

Based on the utility research conducted, facilities crucial for the operation of the city’s infrastructure would be affected by the proposed California HSR System construction. These facilities are power receiving station, potable water trunk line feeder and control structure, and wholesale water supply connection. The impacted facilities are recommended for an advance relocation to continue uninterrupted services to the city.

5.4.1 SCG Control Structure

The proposed Build Alignment would partially impact the existing SCG Control Structure 550 feet east of East Avenue S and East 10 Street intersection in Palmdale. The proposed East Avenue S realignment swerves north offset to the existing East Avenue S between East 5th Street and Windy Creek Street. The proposed northerly edge of sidewalk encroaches up to 25 feet from SCG’s existing property line with impacts to SCG’s control station appurtenances.

5.4.2 Palmdale Ditch Enclosure

The proposed Build Alignment would not affect the existing Palmdale Water District Ditch Enclosure. The 48-inch RCP ditch enclosure conveys water shed run-off from Little Rock Reservoir to Lake Palmdale.

5.4.3 Permitting

All impacted utilities would be relocated within the project footprint, as indicated in the Composite Utility Plans package. Based on the Authority’s investigation with various agencies, for moving the project forward to the construction, various utility agency permits or approvals shall be required. Completion of permit applications would be part of a subsequent design phase. Table 5-6 summarizes some of the major agency’s permits or approvals required.

Table 5-6 Permits or Approvals for SR14A Build Alternative

Agency	Permits and Approval	Comments
Authority	Refer to Caltrans Encroachment Permits (Form TR-0100): 1.Encroachment Permit Fee Calculation Sheet 2. Fee Schedule for type of encroachment and access. 3.Encroachment Permit Check List	
SCRRA (Metrolink)	1.Written Statement of, reasoning, location and duration for Encroachment 2.Application for Encroachment Permits 3. Plan and Profile drawings 4.Schedule 5.Existing License Agreement	

Agency	Permits and Approval	Comments
City of Palmdale	Encroachment Permits W/Traffic Control Plan (To Building and Safety)	
Private Parcel (within Palmdale)	Easement Agreement (To City of Palmdale Engineering)	
Los Angeles County Public Works (Land Development Division)	Pre-Application with 4 set of plans	Unincorporated Areas within Los Angeles County.
CALTRANS	Encroachment Permits (refer to CALTRANS utility permit Codes)	

5.5 Operation and Maintenance

The facility relocation concept has been incorporated with the consideration to maintain uninterrupted operation to the Authority and its ancillaries. In order to provide a safe environment for operation of the California HSR System project, minimize the disruption to the traveling public, and assure safety of Authority personnel and patrons during its operations, all proposed utility maintenance access, vault, and appurtenances would be located outside of the Authority's right of way.

6 REFERENCES

The Center for Land Use Interpretation Website: <http://www.clui.org/section/ladwp-power>

CHSTP In-Progress Draft Technical Memorandum Designer's Responsibilities and Utility Requirements for 15% Design Level TM 2.7.4, November 20, 2008.

State of California Public Utilities Commission, General Order No. 95 (Overhead Electric Line Construction):

<http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M146/K646/146646565.pdf>, January 2015.

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Appendix A: Utility Contact Information

SR14A Alignment – Utility Contact Information

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
1	SENER	Los Angeles Department of Water and Power (LADWP)	Charles Dunn	Engineer of Underground Structures Group	111 N. Hope Street, Room 1031	Los Angeles, CA 90012	(213) 367-2715	Charles.Dunn@LADWP.Com
2	SENER	Los Angeles Department of Public Works (LADPW)	Daryll Chenoweth	Utility Coordination Unit, Head	900 S. Fremont Ave	Alhambra, CA 91803	(626) 458-3109	dchenowe@dpw.lacounty.gov
3	SENER	City of Palmdale	Jim Deyo	Department of Public Works	38250 Sierra Hwy	Palmdale, CA 93550	(661) 267-5347	jdeyo@cityofpalmdale.org
4	SENER	Palmdale Water District	Mike West	Engineering Design Technician	2029 E Avenue Q	Palmdale, CA 93550	(661)-947-1022	mwest@paldalewater.org
5	SENER	Southern California Gas (SCG) - Transmission	Chris Coria Estafania Sanchez Rosalyn Squires Carlos Gaeta		9400 Oakdale Ave	Chatsworth, CA 91311	818-701-3253 (Chris Coria) (818) 701-6679 (818) 701-3474 (Carlos)	Ccoria@semprautilities.com cagaeta@semprautilities.com rsquires@semprautilities.com
6	SENER	AT&T Distribution	Mary Ramos		600 East Green St	Pasadena, CA 91101	(510) 645-2929	ma2797@att.com
7	SENER	AT&T Transmission (Telephone)	Joseph Forkert Walter Westriuk		22311 Brookhurst St, Suite 203	Huntington Beach, CA 92646	(714) 963-7964	joef@forkertengineering.com
8	SENER	AT&T Transmission	Maria Guzman		420 S Grand Ave, RM 707	Los Angeles, CA 90071	(213) 787-9996	mg1371@att.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
9	SENER	Time Warner Cable (Charter)	Dave Bell		3041 E. Mira Loma Ave	Anaheim, CA 92806	(714) 591-4878	dave.bell@charter.com
10	SENER	Time Warner Cable (Telephone)	Dianell Caamano		41551 10th St West	Palmdale, CA 93551	(661) 259-6909	dianell.caamano@twcable.com
11	SENER	State of California, Department of Water Resources	Jaime Desantiago	Project Engineer	P.O. Box 1187	Pearblossom, CA 93553	(661) 994-8574	jdes@water.ca.gov
12	SENER	Los Angeles County Sanitary District (LACSD)	Koesen Lipock	Engineer	1955 Workman Mill Road	Whittier, CA 90601	(562) 908-4288	Klipock@lacsdsd.org
13	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	Sam Queszada	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-5100	squeszada@dpw.lacounty.gov
14	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	Hank Fung	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 458-3980	hfung@dpw.lacounty.gov
15	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	Jeff Chow	Engineer	1000 S Fremont Ave	Alhambra, CA 91803	(626) 300-4753	jchow@dpw.lacounty.gov
16	SENER	Los Angeles County Water Works	Jason Kitto	Engineer	900 S Fremont Ave	Alhambra, CA 91803	(626) 300-3337	jkitto@dpw.lacounty.gov

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
17	SENER	Newhall County Water	Josh Jenkins	Engineer	PO Box 220970	Newhall, CA 91322	(661) 259-3610	jjenkins@ncwd.org
18	SENER	Air Touch Cellular (Telephone)	Matthew Kang	Engineer	10640 Sepulveda Blvd, Ste 1	Mission Hills, CA 91345	(818) 898-2352	matthew.kang@cableeng.com
19	SENER	Metropolitan Water District	Shoreh Zareh	Engineer	700 N Alameda St	Los Angeles, CA 90012	(213) 217-7474	szareh@mwdh20.com
20	SENER	Plains All American Pipeline (Oil)	Becky Sitton	Engineer	5900 Cherry Ave	Long Beach, CA 90805	(562) 728-2817	bsitton@paalp.com
21	SENER	T-Mobile (Telephone)	Gregg Lake	Engineer	7543 Woodley Ave, Suite 201	Van Nuys, CA 91406	(818) 840-0808	glake@synergy.cc
22	SENER	XO Communications (Telephone) - Los Angeles	Matt Bergine	Engineer	1924 Deere Ave	Santa Ana, CA 92705	(949) 417-7841	matt.bergine@xo.com
23	SENER	Southern California Gas (SCG) - Distribution	Timothy Bruce	Engineer	9400 Oakdale Ave,	Chatsworth, CA 91311.	(818) 701-3335	tbruce@semprautilities.com
24	SENER	Level 3 Communications (Telephone)	Felix Vigil		818 W 7th St, Suite 700	Los Angeles, CA 90017	(213) 929-2126	felix.vigil@level3.com
25	SENER	Southern California Edison (SCE) - Overhead Power Transmission	Kim Gurule		14799 Chestnut St	Westminster, CA 92683	(714) 796-9932	maprequests@sce.com

No.	Region	Owner (Counties)	Contact	Title	Address	City, State, Zip	Phone	Email
26	SENER	Southern California Edison (SCE) - Telecom	Tommy Savage		501 S Marengo Ave	Alhambra, CA 91802	(626) 308-6186	tommy.savage@sce.com

Appendix B: High Risk and Major Utility Information Log

SR14A Alignment – Utility Information Log – (High Risk & Major Utility)

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
1	SENER	AT&T	SR14A	UT-C4001-14A UT-C4002-14A	263+70 to 283+00		FIBER OPTICS	4-1.5"		1300'		PROTECT IN PLACE
2	SENER	PALMDALE WD	SR14A	UT-C4001-14A UT-C4050-14A UT-C4051-14A	265+57	Avenue R	WATER	12" H SL	PSI	2844'		TO BE RELOCATED
3	SENER	CITY OF PALMDALE	SR14A	UT-C4001-14A UT-C4050-14A UT-C4051-14A	263+72	Avenue R	SEWER	8"		2095'		TO BE RELOCATED
4	SENER	AT&T	SR14A	UT-C4001-14A	266+00	Avenue R	FIBER OPTICS	4-1.5"		985'		TO BE RELOCATED
5	SENER	PALMDALE WD	SR14A	UT-C4001-14A	263+27	Avenue R	WATER	12"	PSI	42'		PROTECT IN PLACE
6	SENER	CITY OF PALMDALE	SR14A	UT-C4001-14A	263+70 to 270+00		SEWER	8" VCP		600'		TO BE RELOCATED
7	SENER	SCE	SR14A	UT-C4001-14A UT-C4050-14A	265+57	Avenue R	OH POWER	69 KV	KV	3225'		TO BE RELOCATED
8	SENER	PALMDALE WD	SR14A	UT-C4002-14A	290+50 to 295+00		WATER	18" STL	PSI	469'		PROTECT IN PLACE
9	SENER	PALMDALE WD	SR14A	UT-C4002-14A	291+00 to 295+00		WATER	16" STL	PSI	361'		PROTECT IN PLACE
10	SENER	CITY OF PALMDALE	SR14A	UT-C4002-14A	270+00 to 275+00	6th St East	SEWER	8" VCP		500'		TO BE RELOCATED
11	SENER	PALMDALE WD	SR14A	UT-C4002-14A	270+00 to 276+00	6th St East	WATER	12" DIP	PSI	600'		TO BE RELOCATED
12	SENER	PALMDALE WD	SR14A	UT-C4002-14A	290+50	Ave R Eight	WATER	12" STL	PSI	602'		TO BE RELOCATED
13	SENER	PALMDALE WD	SR14A	UT-C4002-14A UT-C4003-14A	291+00 to 296+80		WATER	8"	PSI	535'		REMOVE - ABANDONED
14	SENER	SPRINT	SR14A	UT-C4002-14A UT-C4003-14A UT-C4053-14A	284+40 to 323+00		FIBER OPTICS	UNKNO WN		4045'		TO BE RELOCATED
15	SENER	PALMDALE WD	SR14A	UT-C4003-14A	299+00 to 318+50		WATER	16"		1982'		TO BE RELOCATE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
16	SENER	SCG	SR14A	UT-C4003-14A UT-C4052-14A	318+75	Avenue S	GAS	4"		1395'		TO BE RELOCATED
17	SENER	PALMDALE WD	SR14A	UT-C4003-14A	299+00 to 318+50		WATER	18"	PSI	1972'		TO BE RELOCATE
18	SENER	PALMDALE WD	SR14A	UT-C4003-14A	298+00 to 318+00		WATER	8"	PSI	1959'		REMOVE - ABANDONED
19	SENER	PALMDALE WD	SR14A	UT-C4003-14A	318+75	Avenue S	WATER	42"	PSI	312'		TO BE RELOCATED
20	SENER	PALMDALE WD	SR14A	UT-C4003-14A UT-C4052-14A UT-C4054-14A	318+75	Avenue S	WATER	12"	PSI	2128'		TO BE RELOCATED
21	SENER	SCG	SR14A	UT-C4003-14A UT-C4053-14A	318+75	Sierra Hwy	GAS	4"		474'		REMOVE
22	SENER	AT&T	SR14A	UT-C4003-14A UT-C4052-14A UT-C4054-14A	318+75	Avenue S	TELEPHONE	UNKNO WN		3188'		TO BE RELOCATED
23	SENER	SCG	SR14A	UT-C4003-14A UT-C4052-14A UT-C4054-14A	318+75	Avenue S	GAS	30"		3991'		TO BE RELOCATED
24	SENER	PALMDALE WD	SR14A	UT-C4003-14A	314+00 to 318+50		WATER	48"	PSI	353'		TO BE RELOCATED
25	SENER	PALMDALE WD	SR14A	UT-C4003-14A	314+00 to 318+50		WATER	30"	PSI	307'		TO BE RELOCATED
26	SENER	PALMDALE WD	SR14A	UT-C4003-14A	314+00 to 318+50		WATER	36"	PSI	259'		TO BE RELOCATED
27	SENER	SCE	SR14A	UT-C4003-14A UT-C4052-14A	318+75	Avenue S	OH POWER	UNKNO WN		2423'		TO BE RELOCATED
28	SENER	PALMDALE WD	SR14A	UT-C4052-14A	318+75	Avenue S	WATER	24"	PSI	916'		TO BE RELOCATED
29	SENER	PALMDALE WD	SR14A	UT-C4052-14A	318+75	Avenue S	WATER	20"	PSI	304'		TO BE RELOCATED
30	SENER	PALMDALE WD	SR14A	UT-C4052-14A	318+75	Avenue S	WATER	8"	PSI	642'		PROTECT IN PLACE
31	SENER	PALMDALE WD	SR14A	UT-C4052-14A	318+75	Avenue S	WATER	20"	PSI	893'		TO BE RELOCATED
32	SENER	PALMDALE WD	SR14A	UT-C4052-14A	318+75	Avenue S	WATER	8"	PSI	33'		REMOVE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
33	SENER	PALMDALE WD	SR14A	UT-C4052-14A	318+75	Avenue S	WATER	8"	PSI	303'		REMOVE
34	SENER	LACSD	SR14A	UT-C4054-14A	305+00 317+00	E Ave 10th	SEWER	10"		1165'		TO BE RELOCATED
35	SENER	SCG	SR14A	UT-C4054-14A	305+00 317+00	E Ave 10th	GAS	4"		1510'		TO BE RELOCATED
36	SENER	SCG	SR14A	UT-C4054-14A	305+00 317+00	E Ave 10th	GAS	10"		1580'		TO BE RELOCATED
37	SENER	PALMDALE WD	SR14A	UT-C4054-14A	318+75	E Ave 10th	WATER	12"	PSI	1708'		TO BE RELOCATED
38	SENER	PALMDALE WD	SR14A	UT-C4054-14A	318+75	Avenue S	WATER	24"	PSI	1355'		TO BE RELOCATED
39	SENER	PALMDALE WD	SR14A	UT-C4054-14A	318+75	E Ave 10th	WATER	24"	PSI	1872'		TO BE RELOCATED
40	SENER	AT&T	SR14A	UT-C4054-14A	318+75	E Ave 10th	TELEPHONE	UNKNO WN		1350'		TO BE RELOCATED
41	SENER	PALMDALE WD	SR14A	UT-C4054-14A	318+75	Avenue S	WATER	16"	PSI	1104'		TO BE RELOCATED
42	SENER	AT&T	SR14A	UT-C4054-14A	305+00 to 317+00	E Ave 10th	TELEPHONE	UNKNO WN		1379'		TO BE RELOCATED
43	SENER	CITY OF PALMDALE	SR14A	UT-C4054-14A	318+75	Avenue S	SEWER	8"		932'		PROTECT IN PLACE
44	SENER	PALMDALE WD	SR14A	UT-C4004-14A	324+50 to 328+50	Valley Forge	WATER	UNKNO WN	PSI	389'		TO BE RELOCATED
45	SENER	PALMDALE WD	SR14A	UT-C4053-14A	318+00 to 323+50	Sierra Hwy	WATER	24"	PSI	578'		TO BE RELOCATED
46	SENER	PALMDALE WD	SR14A	UT-C4053-14A	318+00 to 323+50	Sierra Hwy	WATER	6"	PSI	445'		TO BE RELOCATED
47	SENER	AT&T	SR14A	UT-C4053-14A		Sierra Hwy	TELEPHONE	UNKNO WN		933'		TO BE RELOCATED
48	SENER	PALMDALE WD	SR14A	UT-C4007-14A	405+52	Sierra Hwy	WATER	20"		998'		PROTECT IN PLACE
49	SENER	PALMDALE WD	SR14A	UT-C4007-14A	404+40	Sierra Hwy	WATER	20"		990'		PROTECT IN PLACE
50	SENER	U.S. SPRINT	SR14A	UT-C4007-14A	406+05 to 407+70	Sierra Hwy	FIBER OPTIC	4"		175'		RELOCATE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
51	SENER	AT&T	SR14A	UT-C4007-14A	404+22 to 409+00	Sierra Hwy	TELEPHONE	UNKNO WN		775'		PROTECT IN PLACE
52	SENER	SCE	SR14A	UT-C4007-14A	405+26 to 408+00	Sierra Hwy	OH POWER	12 KV		425'		RELOCATE
53	SENER	PALMDALE WD	SR14A	UT-C4007-14A	404+60	Sierra Hwy	WATER	8"	PSI	430'		RELOCATE
54	SENER	PALMDALE WD	SR14A	UT-C4007-14A	404+88	Sierra Hwy	WATER	8"	PSI	395'		PROTECT IN PLACE
55	SENER	PALMDALE WD	SR14A	UT-C4007-14A	402+95	Sierra Hwy	SD	8"		196'		PROTECT IN PLACE
56	SENER	PALMDALE WD	SR14A	UT-C4007-14A	408+76	Sierra Hwy	WATER	20"	PSI	163'		RELOCATE
57	SENER	PALMDALE WD	SR14A	UT-C4007-14A	408+98	Sierra Hwy	WATER	20"	PSI	179'		RELOCATE
58	SENER	PALMDALE WD	SR14A	UT-C4007-14A	409+80	Sierra Hwy	WATER	20"	PSI	140'		RELOCATE
59	SENER	AUTHORITY	SR14A	UT-C4009-14A UT-C4060-14A UT-C4010-14A UT-C4011-14A UT-C4012-14A UT-C4061-14A UT-C4062-14A	461+65 to 587+00	Sierra Hwy/ W Carson Mesa Rd/ Harbea Carson Mesa Rd	TP-POWER	230KV		11046'		PROPOSED
60	SENER	AVEK	SR14A	UT-C4010-14A	484+00 to 491+00	Sierra Hwy	WATER	20"	PSI	130'		PROTECT IN PLACE
61	SENER	UNKNOWN	SR14A	UT-C4010-14A UT-C4011-14A	486+90 to 520+00	Sierra Hwy	FIBER OPTIC	UNKNO WN		3620'		PROTECT IN PLACE
62	SENER	SCE	SR14A	UT-C4010-14A	481+90 to 488+50	Sierra Hwy	OH POWER	12 KV		1100'		PROTECT IN PLACE
63	SENER	AVEK	SR14A	UT-C4011-14A UT-C4012-14A	506+50 to 545+00	Sierra Hwy	WATER	20"	PSI	4827'		PROTECT IN PLACE
64	SENER	UNKNOWN	SR14A	UT-C4012-14A	520+00 to 545+00	Sierra Hwy	FIBER OPTIC	UNKNO WN		2511'		PROTECT IN PLACE
65	SENER	SCE	SR14A	UT-C4012-14A	520+00 to 545+00	Sierra Hwy	OH POWER	12 KV	KV	600'		PROTECT IN PLACE
66	SENER	SCE	SR14A	UT-C4012-14A	524+70 to 525+65	Sierra Hwy	OH POWER	(2) 12 KV	KV	1200'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
67	SENER	SCE	SR14A	UT-C4013-14A	548+95 551+70	Sierra Hwy	OH POWER	(3) 230 KV	KV	1500'		PROTECT IN PLACE
68	SENER	SCE	SR14A	UT-C4013-14A	556+70 557+10	Sierra Hwy	OH POWER	(2) 500 KV	KV	1100'		PROTECT IN PLACE
69	SENER	AVEK	SR14A	UT-C4013-14A	561+10 to 566+00	Sierra Hwy	WATER	(3) 20"	PSI	1000'		PROTECT IN PLACE
70	SENER	UNKNOWN	SR14A	UT-C4013-14A	545+00 to 565+16	Sierra Hwy	FIBER OPTIC	UNKNO WN		2116'		PROTECT IN PLACE
71	SENER	AVEK	SR14A	UT-C4015-14A	594+00 to 600+00		WATER	(2) 20"	PSI	400'		PROTECT IN PLACE
72	SENER	LACDPW	SR14A	UT-C4016-14A	639+60	San Gabriel Ave	WATER	8"	PSI	300'		PROTECT IN PLACE
73	SENER	LACDPW	SR14A	UT-C4017-14A	648+50 to 649+50	Sierra Hwy	WATER	12"	PSI	420'		PROTECT IN PLACE
74	SENER	UNKNOW	SR14A	UT-C4018-14A	670+00 to 681+00	Sierra Hwy	FIBER OPTIC	UNKNO WN		1250'		PROTECT IN PLACE
75	SENER	LACDPW	SR14A	UT-C4018-14A	670+00 to 695+00	Sierra Hwy	WATER	24"	PSI	810'		PROTECT IN PLACE
76	SENER	LACDPW	SR14A	UT-C4018-14A	674+00 to 681+00	Sierra Hwy	WATER	12"	PSI	850'		PROTECT IN PLACE
77	SENER	SCG	SR14A	UT-C4018-14A	671+50 to 674+00	Sierra Hwy	GAS	3"		200'		PROTECT IN PLACE
78	SENER	SCG	SR14A	UT-C4018-14A	674+00 to 679+50	Santiago Rd	GAS	4"		615'		PROTECT IN PLACE
79	SENER	LACDPW	SR14A	UT-C4018-14A	677+20 to 682+00	Santiago Rd	WATER	30"	PSI	400'		PROTECT IN PLACE
80	SENER	SCG	SR14A	UT-C4018-14A	679+00 to 685+00	Sierra Hwy	GAS	6"		600'		PROTECT IN PLACE
81	SENER	LACDPW	SR14A	UT-C4018-14A	685+00 to 689+00	Santiago Rd	WATER	8"	PSI	620'		PROTECT IN PLACE
82	SENER	LACDPW	SR14A	UT-C4022-14A	784+00 to 795+00	Crown Valley Rd	WATER	8"	PSI	1096'		PROTECT IN PLACE
83	SENER	LACDPW	SR14A	UT-C4022-14A	795+00	Crown Valley Rd	WATER	12"	PSI	650'		PROTECT IN PLACE
84	SENER	LACDPW	SR14A	UT-C4023-14A	795+00	Crown Valley Rd	WATER	12"	PSI	450'		RELOCATE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
85	SENER	AUTHORITY	SR14A	UT-C4023-14A UT-C4063-14A UT-C4064-14A UT-C4065-14A	795+00 to 818+48	Crown Valley Rd	TP- POWER	UNKNO WN		9983'		PROPOSED
86	SENER	AUTHORITY	SR14A	UT-C4024-14A UT-C4066-14A UT-C4067-14A UT-C4068-14A	821+00 to 844+00	Crown Valley Rd	WATER	16"	PSI	10225'		PROPOSED
87	SENER	SCE	SR14A	UT-C4038-14A	1174+00 to 1195+00	-	OH POWER	(3) 230 KV		2450/ 2140/ 1750'		PROTECT IN PLACE
88	SENER	AUTHORITY	SR14A	UT-C4038-14A UT-C4039-14A	1175+50 to 1220+00	-	WATER	16"	PSI	6780'		PROPOSED
89	SENER	AUTHORITY	SR14A	UT-C4038-14A	1183+00 to 1195+02	-	TP- POWER	UNKNO WN		1189'		PROPOSED
90	SENER	SCE	SR14A	UT-C4039-14A	1196+28 to 1220+00	Agua Dulce Canyon Rd	OH POWER	(3) 230 KV		2235/ 1720/ 1110'		RELOCATE
91	SENER	SCE	SR14A	UT-C4039-14A	1210+00 to 1212+40	Agua Dulce Canyon Rd	OH POWER	16 KV	KV	570'		REMOVE
92	SENER	AUTHORITY	SR14A	UT-C4039-14A UT-C4088-14A UT-C4040-14A	1213+73 to 1229+52	Agua Dulce Canyon Rd	TP- POWER	UNKNO WN		2138'		PROPOSED
93	SENER	SCE	SR14A	UT-C4039-14A UT-C4088-14A	1206+00 to 1210+50	Agua Dulce Canyon Rd	OH POWER	16 KV	KV	1400'		RELOCATE
94	SENER	AUTHORITY	SR14A	UT-C4039-14A UT-C4040-14A UT-C4089-14A	1195+00 to 1230+00	-	WATER	16"	PSI	6012'		PROPOSED
95	SENER	AUTHORITY	SR14A	UT-C4042-14A UT-C4043-14A UT-C4044-14A UT-C4045-14A UT-C4090-14A UT-C4091-14A	1288+00 to 1346+57	Soledad Canyon Rd	WATER	16"	PSI	11611'		PROPOSED

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
96	SENER	AUTHORITY	SR14A	UT-C4043-14A UT-C4044-14A UT-C4045-14A	1301+80 to 1346+11	Soledad Canyon Rd	TP-POWER	UNKNO WN		4623'		PROPOSED
97	SENER	SCE	SR14A	UT-C4045-14A	1352+58	Soledad Canyon Rd	OH POWER	16 KV		2484'		PROTECT IN PLACE
98	SENER	SCE	SR14A	UT-C4046-14A	1379+34	Lang Station Rd	OH POWER	16 KV	KV	1745'		PROTECT IN PLACE
99	SENER	AUTHORITY	SR14A	UT-C4046-14A UT-C4092-14A UT-C4093-14A	1382+20	Lang Station Rd	WATER	16"	PSI	3603'		PROPOSED
100	SENER	AUTHORITY	SR14A	UT-C4046-14A UT-C4092-14A UT-C4093-14A	1381+82	Lang Station Rd	TP POWER	UNKNO WN		3139'		PROPOSED
101	SENER	SCE	SR14A	UT-C4061-14A UT-C4062-14A	545+00 to 568+20	W Carson Mesa Rd	OH POWER	230 KV	KV	4517'		PROTECT IN PLACE
102	SENER	SCE	SR14A	UT-C4061-14A UT-C4062-14A	545+00 to 587+01	W Carson Mesa Rd	OH POWER	500 KV	KV	2353'		PROTECT IN PLACE
103	SENER	SCE	SR14A	UT-C4062-14A	587+00	Rockyford Rd	OH POWER	230 KV	KV	500'		PROTECT IN PLACE
104	SENER	LACDPW	SR14A	UT-C4063-14A	795+00	Crown Valley Rd	WATER	8"	PSI	3500'		PROTECT IN PLACE
105	SENER	LACDPW	SR14A	UT-C4063-14A	795+00	Crown Valley Rd	WATER	12"	PSI	679'		PROTECT IN PLACE
106	SENER	SCG	SR14A	UT-C4063-14A	795+00	Crown Valley Rd & Sierra Hwy	GAS	4"		3572'		PROTECT IN PLACE
107	SENER	LACDPW	SR14A	UT-C4064-14A	795+00	Crown Valley Rd	WATER	8"	PSI	1799'		PROTECT IN PLACE
108	SENER	LACDPW	SR14A	UT-C4064-14A	795+00	Crown Valley Rd	WATER	6"	PSI	859'		PROTECT IN PLACE
109	SENER	LACDPW	SR14A	UT-C4067-14A	806+80 to 822+70	Escondido Canyon Rd	WATER	8"	PSI	2452'		PROTECT IN PLACE
110	SENER	UNKNOWN	SR14A	UT-C4067-14A	806+80 to 822+70	Escondido Canyon Rd	OH POWER	UNKNO WN	KV	811'		PROTECT IN PLACE
111	SENER	UNKNOWN	SR14A	UT-C4068-14A	822+70 to 845+00	Escondido Canyon Rd	OH POWER	UNKNO WN	KV	200'		PROTECT IN PLACE

No.	Region	Owner	HSR ALIGNMENT	Dwg No.	Station	Location	Facility Type	Size	Units	Length	% Cost Allocation	Disposition
112	SENER	AUTHORITY	SR14A	UT-C4084-14A UT-C4085-14A UT-C4086-14A UT-C4087-14A UT-C4088-14A	1140+40 to 1164+00	Escondido Canyon Rd/ Agua Dulce Canyon Rd	WATER	16"	PSI	10828'		PROPOSED
113	SENER	SCE	SR14A	UT-C4088-14A	1200+20 to 1205+00	Agua Dulce Canyon Rd	OH POWER	16 KV	KV	2243'		PROTECT IN PLACE
114	SENER	SCE	SR14A	UT-C4089-14A	1176+00 to 1186+00	Agua Dulce Canyon Rd	OH POWER	UNKNO WN	KV	730'		PROTECT IN PLACE
115	SENER	SCE	SR14A	UT-C4090-14A UT-C4091-14A	1346+00 to 1383+00	Soledad Canyon Rd	OH POWER	16 KV	KV	3848'		PROTECT IN PLACE
116	SENER	SCE	SR14A	UT-C4092-14A UT-C4093-14A	1376+00 to 1395+20	Lang Station Rd	OH POWER	16 KV	KV	3630'		PROTECT IN PLACE

Appendix C: Utility Owner Contact Log

Refined SR14A Alignment– Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
1	SENER	Level 3 Communications (Telephone)	2015-12-17 To 2016-08-25	918-547-0007 (213) 929-2126 felix.vigil@level3.com (949) 672-0403 gerardo.issasi@level3.com (949) 275-1419	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-17: Email sent to Gerry Issasi with attached letter and maps</p> <p>2015-12-30: Updated correction to telephone no.</p> <p>2016-01-14: Confirmed with Gerry that Felix is the point of contact for LA; Called Felix; no response; sent email to follow up</p> <p>2016-01-15: Confirmed with Felix he is the point of contact for LA area; emailed him TG grid pages with markups</p> <p>2016-02-17: Received some snapshots of its facilities in the project research area. Will received more detailed plans by the end of the week</p> <p>2016-6-24: resent letter by email + Google Earth file, also requested further details to previous response</p> <p>2016-8-2: CN resent letter again by email + Google Earth + GIS, also left voicemail</p> <p>2016-8-3: Caleb King emailed, they will respond by 9/9</p> <p>2016-8-10: Caleb verified by email that he is responsible for all of California.</p> <p>2016-8-19: CN sent maps previously received to Caleb to ask for clarification and drawings.</p> <p>2016-8-24: CN emailed Caleb to request phone number, his sig file shows Oklahoma address, no number.</p> <p>2016-8-25: Caleb responded with phone number, requested Google Maps image of research area, offered to look into it himself. CN emailed Google Earth file + jpg maps Level 3 sent previously.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
2	SENER	Time Warner Cable (Charter)	2016-01-07 To 2016-08-24	john.jacinto@charter.com (714) 591-4878 (Dave's new #) O: (310) 647-5167 C: (714) 920-6026 west-engineering-relo@twcable.com dave.bell@charter.com	TAGC/Ray Wang HDR/Cherie Nixon	HDR to review maps; need to request maps 1&2 larger size 2016-01-07: Requested larger maps since they are not legible; waiting for response 2016-01-20: Called Dave Bell; would like us to email him of our concerns and he will forward the email/follow up with the group; Sent email to follow up 2016-01-26: Received new maps; still not legible 2016-02-22: Bell emailed us to let HDR know he has been passing the information along to the group to respond back with legible maps. 2016-03-21: received email w vague but legible pdf maps (via Roberto Rodriguez). 2016-5-6: rec'd email w vague pdf map (from westengrelo via Roberto Rodriguez) 2016-8-10: CN emailed westengrelo to request drawings that show distance to street CL. 2016-8-11: westengrelo emailed that they don't have drawings showing distance to CL. 2016-8-16: CN emailed Dave Bell to ask if there's a way to obtain drawings that show distance to CL. (Auto-response shows Dave's new Charter email after merger.) 2016-8-17: Dave suggested contacting John Jacinto at Charter, as well as westengrelo. 2016-8-23: CN emailed letter + Google Earth + GIS to John requesting detailed drawings. 2016-8-24: John ("JJ") replied to say he would look into it to see what they can provide.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
3		Newhall County Water	5/2/2016	(661) 259-3610 jjenkins@ncwd.org	TAGC/Ray Wang HDR/Cherie Nixon	5/2 - rec'd CAD + pdf files for Danielle Burseson Drawings don't show distance from CL - check CAD drawings. TAG to verify that CAD locations are correct (contact NCWD).
4	SENER	Southern California Edison (SCE) Overhead Power Transmission	2015-12-30 To 2016-09-20	(714) 796-9932 maprequests@sce.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-30: Sent out email with attached letter for utility request</p> <p>2015-12-31: Emailed to respond request was received; currently in progress</p> <p>2016-01-05: SCE would like a shape file for the project research area</p> <p>2016-01-13: HDR sent SCE .dgn & .kmz file of the research area</p> <p>2016-01-20: SCE sent non-disclosure agreement</p> <p>2016-8-2: CN emailed & left vm for Dennis Kim of RDP to ask about agreements.</p> <p>2016-8-5: Dennis called CN, he is checking if we already have NDA with them.</p> <p>2016-8-18: Dennis emailed to let us know we do have an NDA with them. CN emailed Kim with 4/20 letter + Google Earth + GIS files requesting as-builts.</p> <p>2016-8-19: Kim emailed to ask if the NDA was project specific, CN responded to say yes.</p> <p>2016-8-24: Kim emailed to ask about the NDA (under HDR?), CN responded that it could be the CHSRA, Rail Delivery Partner, Cordoba Corporation, or Parsons Brinkerhoff. Kim also sent an invoice for \$81.30, CN forwarded to TAG to request payment.</p> <p>2016-8-25: CN called Kim, invoice for a diff HDR project. Kim can't find NDA, explained its rules. CN emailed Dennis Kim requesting copy of NDA. Dennis said he will email it tomorrow morning.</p> <p>2016-8-25: CN emailed Google Earth file + alignment exhibit to Kim as requested. CN emailed RDP Dennis Kim to request NDA.</p> <p>2016-8-26: Dennis Kim sent NDA.</p> <p>2016-8-30: CN emailed NDA to Kim, Kim said they can't accept it. CN emailed Joe McNeely to request that HDR sign its own NDA.</p> <p>2016-9-6: Joe requested resolution for RDP, Rick Simon said CN to contact Dennis Kim at RDP.</p> <p>2016-9-9: CN emailed Dennis Kim to request that HDR sign NDA directly with SCE.</p> <p>2016-9-20: CN called Dennis Kim to follow up. He will discuss it with the CHSRA lawyer and get back to CN.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
5	SENER	SCE - Telecom	2016-04-23 to 2016-08-24	(626) 308-6186	TAGC/Ray Wang HDR/Cherie Nixon	2016-4-23: Letter received by SCE Telecom. 2016-8-2: CN emailed & left vm for Dennis Kim of RDP to ask about agreements. 2016-8-5: Dennis called CN, he is checking if we already have NDA with them. 2016-8-8: Dennis emailed to let us know we do have an NDA with them. CN to follow up after NDA found. 2016-8-24: CN called number for Tommy Savage, voicemail to someone else's name. Requested Tommy's number.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
6	SENER	ATT - Distribution	2016-01-04 to 2016-09-01	(510) 645-2929 (Mary) ma2797@att.com (626) 817-4235 (Kathy) PM1736@att.com (626) 817-4289 (Cathy) al6941@att.com (626) 390-342	TAGC/Ray Wang HDR/Cherie Nixon	Would like a list of TG map grids 2016-01-04: Emailed a list of TG grids; waiting for response 2016-01-26: Called; no response 2016-02-10: ATT emailed back to ask more questions about billing for the map request and for more detail of project location; HDR response is to send TG maps; ATT called and state TG pages are too vague and need the exact street crossings 2016-02-15: HDR asked the pricing per grid or intersection 2016-03-02: HDR responded by sending .kmz file for clarity and described the research location in email 2016-03-03 more calls & email clarification w Mary Ramos & Kathy Montoya, requested fee estimate 2016-03-04 Mary Ramos emailed fee invoice, \$501.40 2016-4-28: Mary Ramos called, need specific streets & intersections, and payment for previous request TAG to pay \$501.40 fee, Cherie to clarify remaining info with Mary Ramos. (CN gathering info for Mary.) 2016-8-1: TAG has sent the check with \$501.40 to Mary/AT&T. 2016-8-3: CN emailed Mary with description, requested cost estimate of additional as-builts. 2016-8-11: Mary called for clarification, said she mailed first package this week. 2016-8-15: HDR received first set of as-builts, saved to PW. 2016-8-17: Mary left voicemail requesting TG pages with narrowed request area highlighted 2016-9-1: Kathy Montoya sent invoice \$1286.20. TAG to pay invoice (not paid yet), CN preparing sketches to send.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
7	SENER	Los Angeles Department of Water and Power (LADWP)	2015-12-30 To 2016-08-20	(213) 367-4957 Edgar.Mercado@ladwp.com (213) 367-2715 Ernest.Fresquez@ladwp.com Charles.Dunn@ladwp.com Jeffrey.Williams@ladwp.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-20: Left voicemail 2016-01-26: Spoke with Ernie; would like TG map pages to narrow down the research area; sent to Ernie 2016-6-24: resent letter by email + Google Earth file 2016-7-18: called & emailed to follow up, resent list of TG grids + 4/20 letter + Google Earth file, voicemail 2016-7-18: reached Ernie, leaving the group, recommended contacting his boss, Edgar Mercado. Emailed Edgar 2016-4-20: letter, Google Earth file, left voicemail. 2016-8-3: TAGC called & left voice message to Edgar. 2016-8-10: TAG called & left voice message to Edgar. No response. 2016-8-15: TAG emailed & left voice message to Edgar again. No response yet. 2016-8-18: TAG emailed 4/20 letter + Google Earth + TG pages to Charles Dunn & Jeffrey Williams. 2016-8-19: Charles Dunn emailed TAG, too busy for large requests, recommended Navigate LA + Google Earth/field review. TAG to follow recommendations. 2016-8-20: TAG will use substructure map from Navigate LA +Google Earth/field review to figure out the LADWP facilities. This line item can be move to the lower priority.
8	SENER	Air Touch Cellular (Telephone)	2015-12-23 To 2016-02-26	(818) 898-2352 matthew.kang@cableeng.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-23: Would like a list of TG map grids 2016-01-04: Emailed a list of TG grids; waiting for response 2016-01-06: Emailed Thomas Guide Pages with markups 2016-01-07: Response it will take then 1-2 months to complete the research since it's a major request 2016-02-22: Sent follow up email to Air Touch Cellular 2016-02-23: Followed up in email; they will send info to HDR soon 2016-02-24: HDR sent email to Kang for Sharepoint login/upload 2016-02-26: Air Touch Cellular sent us information on its facilities via email; HDR to review.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
9	SENER	County Consolidated Sewer Maintenance Districts (LACDPW)	2016-02-11 To 2016-10-12	Sam Queszada 4th floor, Survey Department, 900 S Fremont Ave Alhambra, CA 91803	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-2-11: Shane downloaded a few pdfs in Palmdale for website -> TAG to search for more as-builts online, find contact name (check with Stan Pegadiotes from San Districts)</p> <p>2016-7-28: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather sewer plans.</p> <p>2016-8-1: TAG visited LACDPW Survey Dept. (Sam Queszada) to gather ALL sewer as-builts. Those drawings are all within the City of Palmdale.</p> <p>2016-8-2: Hank Fung also emailed conceptual sewer maps to HDR.</p> <p>2016-10-12: TAG evaluated the as-built and input applicable information in CAD base. uploaded files in 4.10 folder in PW.</p>
10	SENER	AT&T - Transmission	2015-12-30 To 2016-06-27	(213) 787-9996 mg1371@att.com g05131@att.com (cc this email)	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-30: Sent out email with attached letter for utility request</p> <p>2016-01-06: Emailed confirmed there are no AT&T TCA facilities in the project area</p> <p>2016-6-24: resent 4/20 letter by email + Google Earth file</p> <p>2016-6-27: Maria forwarded original 6/13 response</p>
11	SENER	Los Angeles County Flood Control (LACFC, now part of LACDPW)	2016-07-01 To 2016-08-08	(626) 458-3980 Fung hfung@dpw.lacounty.gov (626) 458-3935 Swindle	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-7-01: Letter drafted, waiting for internal approval</p> <p>2016-7-18: Letter sent + email with comments, called Hank Fung. Hank said they can look for the plans, also advised coming in to check microfiche, and checking with the Army Corps of Engineers.</p> <p>2016-7-19: Hank requested GIS files used to create Google Earth file.</p> <p>2016-7-20: Hank requested we resend Google Earth file. Resent Google Earth + GIS files.</p> <p>2016-7-26: Hank emailed to let us know they're working on gathering as-builts for us.</p> <p>2016-7-28: Bill asked if LACFC has facilities in Palmdale, emailed Hank, he confirmed none.</p> <p>2016-8-2: Hank Fung will mail SD as-builts to Cherie/HDR.8/</p> <p>2016-8-4: Hank Fung has 1.4G files ready for TAG to pick up.</p> <p>2016-8-8: TAG has copied the 1.4G files from Hank Fung.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
12	SENER	County Sanitation Districts of Los Angeles County (LACSD)	2016-02-11 to 2016-08-25	(562) 908-4288 x1204, x1205 (engineering counter) engineeringcounter@lacsdc.org (562) 908-4288, x1620 (Stan P) Klipock@lacsdc.org	TAGC/Ray Wang HDR/Cherie Nixon	2016-2-11: Shane emailed engineering counter to request as-builts for portion in Palmdale (not allowed to request larger area at that time, 4/20 letter addressed to LACDPW) 2016-2-24: Koesen Lipock for eng counter emailed link to Shane, 119 pg pdf 2016-7-19: emailed 4/20 letter to eng counter, request remaining as-builts 2016-7-20: Koesen requested map, can't open kmz file, emailed pdf. 2016-7-23: Stan Pegadiotes emailed, no longer with sewer design section. 2016-7-25: Koesen emailed link, CN forwarded to TAG. (7/27 forwarded email to TAG.) 2016-7-29: TAG emailed a sewer drawing list to LACSD Engineering Counter. 2016-8-2: Koesen emailed to mention that they are working on the collection of sewer as-builts. 2016-8-4: Koesen emailed a link to the drox for TAG to download the sewer as-builts. TAG has downloaded them and uploaded to PW. 2016-8-11: TAG coordinated with Koesen for collecting some additional as-builts that we've not gathered last time. no response yet. 2016-8-16: Koesen responded that he will upload the additional as-built to the box (FTP) 2016-8-24: TAG emailed to request a status. 2016-8-25: TAG has downloaded all additional as-built drawings from LACSD. This line item can be moved to the lower priority.
13	SENER	Metropolitan Water District	2015-12-14 To 2016-06-07	(213) 217-6534 (213) 217-7474 szareh@mwdh20.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-14: Provided HDR a card for project refence ID 2015-12-21: As-builts received 2016-5-26: rec'd letter w as-built plans 2016-6-7: replied requesting missing document listed in letter

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
14	SENER	Palmdale Water District	2016-05-20 To 2016-07-28	(661) 456-1022 (661) 947-4111 (Eng Dept.) mwest@palmdalewater.org mknudson@palmdalewater.org	TAGC/Ray Wang HDR/Cherie Nixon	<p>2016-5-20: met w Matthew Knudson, Joe McNeely, Roberto Rodriguez (Sener), RDP</p> <p>2016-6-24: resent letter by email + Google Earth file (to MK, cc MW)</p> <p>2016-7-19: resent letter by email + Google Earth file (to MW, cc MK), also emailed Roberto Rodriguez to check if he had received anything</p> <p>2016-7-20: left voicemail for Michael West. He called back, requested narrower research area. We'll add him to Sharepoint, he'll look into the GIS files that Matt promised, and the as-built drawings. Emailed GIS files of research boundary + narrower as-built boundary.</p> <p>2016-7-21: Richard Heinonen emailed GIS files. Mike West now has Sharepoint access to upload as-builts, emailed link & password.</p> <p>2016-7-25: Mike West emailed re Sharepoint issues. CN responded with suggestions.</p> <p>2016-7-26: Mike West emailed to verify mailing address, will send a disk in the mail.</p> <p>2016-7-28: Received disk from Mike West with pdf as-builts.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
15	SENER	Plains All American Pipeline (Oil)	2015-12-30 To 2016-09-07	(562) 728-2817 (Becky Sitton) bsitton@paalp.com (562) 728-2371 pjbawden@paalp.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-30: Sent out email with attached letter for utility request</p> <p>2016-01-04: Left voicemail to follow up</p> <p>2016-01-15: Spoke with Paula; would like us to email them TG pages with markups; follow up next week for the map request</p> <p>2016-02-04: Sent out follow up email</p> <p>2016-02-17: Left voicemail to follow up</p> <p>2016-02-22: Called at 1:15 PM; no response</p> <p>2016-02-23: Received email Becky Sitton will be working on California HSR System</p> <p>2016-02-24: Becky will be sending us information in the mail; will send hardcopy in mail 02/25</p> <p>2016-02-29: Received hardcopies of the plans in the mail from Plains; HDR to review</p> <p>2016-4-23: Letter received by Plains</p> <p>2016-5-11: email to ask if we want duplicates for previous request, responded no</p> <p>2016-5-17: hard copies received - appear to be as-builts, but can't find distance for street CL</p> <p>2016-8-5: CN verified to Becky Sitton that we have all as-builts in the Metrolink R/W (after series of emails that turned out to be irrelevant.)</p> <p>2016-8-18: CN emailed Becky to verify shared trench w Centurylink (was Qwest), Becky confirmed.</p> <p>2016-9-6: CN emailed Becky to ask if any of its pipes are above ground.</p> <p>2016-9-7: Becky replied that it's all underground except at Hollywood Way where it is encased in cement, and Pacoima Wash where it hangs on the bridge.</p>
16	SENER	State of California, Department of Water Resources	2016-05-27 To 2016-06-20	(661) 994-8574 jdes@water.ca.gov	TAGC/Ray Wang HDR/Cherie Nixon	<p>no response, HDR and/or RDP planning to meet with them</p> <p>2016-5-27: DWR gave as-builts to the RDP (see 05.11.02 folder)</p> <p>2016-6-20: DWR gave hydrology report to the RDP (See 05.11.02 folder)</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
17	SENER	AT&T - Transmission (Telephone)	2015-12-28 To 2016-08-25	(714) 963-7964 (Forkert) joef@forkertengineering.com (925) 997-2413 (Hamill) (714) 963-7964 (Shapzian) (559) 442-2252 (Shermoen)	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-28: Responded with two letters; Sending AT&T plans in the mail (hardcopies) 2015-12-30: Received Plans and letter hardcopies in the mail; HDR to review 2016-5-3: email w lease letter & conflict letter 2016-5-9: received hard copies in the mail 2016-8-24: CN left voicemail asking Joe to call me re where to find cable locating dimensions in as-builts. 2016-8-25: Joe called CN, explained leased vs owned. They can provide maps of owned conduit, contact other AT&T Dig Alert contacts for leased conduit. Mapping shows as-builts at Metrolink Ventura sub, mapping in other locations.
18	SENER	Los Angeles County Water Works	2016-02-24 To 2016-09-20	(661) 300-3337 bhua@dpw.lacounty.gov jkitto@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-02-24: Bing Hua emailed, uploaded pdfs to Sharepoint site 2016-5-3: Bing emailed to let us know that they have no additional facilities in the new research area that they hadn't already sent 2016-7-26: Jason Kitto asked for shape files of research area, CN emailed them. Also emailed list of pdfs that Bing Hua sent in Feb to avoid duplicate efforts. 2016-7-28: Jason Kitto asked for GIS or Google Earth file of alignments, CN emailed it. 2016-8-1: TAG visited LAC Water Works (Jason Kitto, 2nd floor Water Resource Dept.). He said that he has completed the water research and it will take 3-4 weeks for them to gather as-builts and send directly to Cherie/HDR. 2016-9-20: CN emailed Jason Kitto to follow up on status of request. Jason called and said that what Bing sent covers everything they have in our research area.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
19	SENER	Southern California Gas (SCG) - Transmission	2015-12-30 To 2016-08-24	(818) 701-3253 (Chris Coria) Ccoria@semprautilities.com (818) 701-6679 (818) 701-4546 rsquires@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-30: Sent out email with attached letter for utility request 2016-01-14: Resent letter by email to Rosalyn; asked us to follow up next Tuesday 01/19 2016-01-15: Sent Squires .kmz file per request 2016-01-15: Squires sent plans per request; HDR to review 2016-5-5: Estafania Sanchez requested Google Earth file of request area 2016-6-22: emailed Google Earth file to Estafania 2016-6-24: Estafania called to verify what we need, and to check if our previous request was fulfilled 2016-6-27: Estafania tried to email files, but they didn't come through. Janet will add her to the Sharepoint site. 2016-6-28: Sharepoint access didn't work, so Estafania sent info through multiple emails. 2016-8-23: CN emailed Estefania to request as-builts, priority Ave S (currently have maps with distances but not as-builts). 2016-8-24: Estefania responded that another engineer can work with us to send as-builts after we send preliminary construction drawings. CN requested contact info for that engineer, Estefania gave Chris Coria's info. CN emailed Chris to request as-builts of gas mains in Ave S. 2016-9-6: CN emailed to ask if any of its pipes are above ground. 2016-9-9: Estafania responded to ask for clarification, CN responded.
20	SENER	T-Mobile (Telephone)	2015-12-09 To 2016-06-27	(818) 840-0808 (805) 279-3513 shenderson@synergy.cc glake@synergy.cc	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-09: Gregg Lake emailed pdfs package returned 2016-6-24: resent letter by email + Google Earth file 2016-6-27: Gregg Lake emailed, didn't receive letter, send directly to him next time. No utilities.
21	SENER	XO Communications (Telephone) - Los Angeles	2015-12-07 To 2016-08-23	(949) 417-7841 matt.bergine@xo.com	TAGC/Ray Wang HDR/Cherie Nixon	2015-12-07: Need to review information provided 2016-4-27: received pdf as-builts 2016-8-2: CN emailed Matt to ask questions about the drawings they sent. 2016-8-3: Matt responded with answers to questions.

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
22	SENER	City of Palmdale	2015-12-30 To 2016-10-12	(661) 267-5347 (Deyo) jdeyo@cityofpalmdale.org (661) 267-5272 (Autry) sautry@cityofpalmdale.org (661) 267-5337 (Behen) mbehen@cityofpalmdale.org (661) 267-5300 (Gen City No.) bpadilla@cityofpalmdale.org	TAGC/Ray Wang HDR/Cherie Nixon	<p>2015-12-30: Sent out email with attached letter for utility request</p> <p>2016-01-04: Stephanie Autry from City of Palmdale responded to email; Fwd email to Bill Padilla, City Engineer; waiting for response</p> <p>2016-01-05: Email confirmed that the project research area is not in its City's limits</p> <p>2016-4-27: Jim Deyo emailed GIS files for sewers</p> <p>2016-7-26: TAG Sent email to Jim GIS +Google Earth and April Letter pdf requesting storm drain As-builts; 7/26 Received Storm Drain GIS Files from Jim.</p> <p>2016-7-26: TAG left a voicemail message to Jim no response.</p> <p>2016-8-1: Jim emailed TAG, sending CD with storm drain as-builts today</p> <p>2016-8-2: TAG asked Jim who should be contacted for other as-builts such as roadway, water, lighting, etc. Jim said Engineering section. He will also forward this request to City Engineer. Engineering Section will collect everything in next couple of weeks. TAG will follow up.</p> <p>2016-8-10: TAG emailed Jim Deyo to confirm if he has mailed to CD to us but he has not done yet due to waiting for other utility as-builts together.</p> <p>2016-8-24: TAG followed up and Jim Deyo responded and he is still waiting for other as-builts. Eng Dept. has several large data requests and they are busy. will find out when they can have all the information.</p> <p>2016-8-29: TAG emailed Jim to request if he can send whatever available information to us and send a separated mail for the remaining files.</p> <p>2016-9-1: Jim emailed TAG to confirm mailing address.</p> <p>2016-9-7: TAG received 8 disks of CD from CoP (Jim), will evaluate the as-builts and upload the files to PW.</p> <p>2016-10-12: TAG evaluated the files which are "1A". The files were saved in 4.10 folder in PW.</p>

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
23	SENER	Los Angeles County Department of Public Works (LACDPW)	2016-01-04 To 2016-08-25	(626) 458-3109 dchenowe@dpw.lacounty.gov jbouse@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-01-13: Contact Anne Marie Gilmore and Kari Eskridge from 710 project for LACDPW utility coordinator; Eskridge provided contact, Daryll Chenoweth; called and confirmed Daryll Chenoweth is the contact & provided mailing address; sent letter hardcopy in mail & email 2016-4-26: Daryll emailed long description for how to pursue further info 2016-8-25: TAG has followed Daryll's email instructions and collected the as-builts for sewer, storm drain, Street Lighting (limited information). See other LACDPW line items for more info.
24	SENER	Los Angeles County Department of Public Works (LACDPW) - Street Lighting	2016-07-28 To 2016-08-24	(626) 300-4753 jchow@dpw.lacounty.gov	TAGC/Ray Wang HDR/Cherie Nixon	2016-7-28: TAG visited LACDPW street lighting Dept. (Jeff Chow 1000 Fremont 4th floor). He'd forward the info to Hank Fung that day. 2016-8-11: TAG emailed Jeff Chow to confirm if he could send as-builts to us since Hank did not include street lighting as-builts. Jeff is on vacation and be back on Aug 15. 2016-8-17: Jeff and Jimmy sent a pdf showing street lighting drawing number. 2016-8-18: TAG emailed Jeff to request real as-built drawings. 2016-8-24: Jeff Chow responded and instructed that Street Lights are owned and maintained by SCE. As-built drawings can be requested from SCE.
25	SENER	Time Warner Cable (Telephone)		(661) 259-6909 dianell.caamano@twcable.com	HDR/Cherie Nixon	package returned follow up with Dave Bell

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
26	SENER	SCG - Distribution Valencia/ Branford/ Saticoy/ Lancaster (Gas)	2016-01-04 To 2016-08-24	(818) 701-3335 (Bruce) (818) 701-3448 tbruce@semprautilities.com bwimmer@semprautilities.com elewis3@semprautilities.com	TAGC/Ray Wang HDR/Cherie Nixon	<p>Would like more detail on the alignments on Thomas Guide Map</p> <p>2016-01-04: Emailed a list of TG grids; waiting response to Timothy Bruce</p> <p>2016-01-11: Received an invoice from SCG before they can distribute the plans</p> <p>2016-02-25: SCG Dist sent in the mail a CD with the plans</p> <p>2016-03-01: HDR received CD with plans</p> <p>2016-5-20: letter w invoice \$1512 (Timothy Bruce)</p> <p>2016-7-25: email & voicemail to Tim to check status, back from vacation tomorrow.</p> <p>2016-7-26: Tim emailed to confirm we still owe \$1512. HDR reminded the RDP.</p> <p>2016-8-2: CN emailed & left vm for Dennis Kim of RDP to ask about agreements.</p> <p>2016-8-5: Dennis called CN, suggested asking Juan Carlos to approve payment.</p> <p>2016-8-10: RDP approved payment of \$1512, TAG to pay fee.</p> <p>2016-8-15: TAG mailed the check of \$1512 to SCG (Billing Dept.)</p> <p>2016-8-16: CN emailed Tim to let him know the check is in the mail, and to request an estimate of when we will receive the drawings.</p> <p>2016-8-19: Tim Bruce emailed, said he's putting CD w as-builts in the mail.</p> <p>2016-8-24: HDR received CD w atlas sheets. CN emailed to request clarification of legend. Tim sent legend.</p>

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Appendix D: Utility Log Index

Heading	Explanation
No.	Sequentially number each entry
Region	Regional Consultant
Owner	Utility Owner
Contact	Name of the contact person representing the Owner
Title	Job title of the contact person representing the Owner
Address	Street Address, City, and Zip Code of the Owner's contact location
Phone	Phone number for Owner's representative
Email	Email address for Owner's representative
Build Alignment	High-Speed Train Alignment Subsection Build Alternative
Station	Stationing along the alignment to locate the facility
Facility Type	Type of utility being conveyed
Size	Size of utility facility
Units	Units of measure for the size of utility
Length	Length of utility being impacted - Use separate entries for abandonment and relocated utilities
% Cost Allocation	Percentage of construction cost to be borne by CHSRA (requires input by CHSRA)
Disposition	State the type of work being performed (removed, relocated, protect in place)
Date	Date of contact with Owner
Correspondence Type	Type of correspondence with Owner (phone, fax, letter, email)
Description	Description of the discussion and/or request. Include reference to email or letter dates

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